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GOVERNOR



HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20070032
Agency Interest No. 2083

Sarah B. Thigpen
Responsible Care Leader
Union Carbide Corporation
PO Box 50
Hahnville, LA 70057-0050

RE: Part 70 Operating Permit Renewal/Modification, Union Carbide Corp - St Charles Operations,
Specialty Products Unit,
Union Carbide Corp, Taft, St. Charles Parish, Louisiana

Dear Mrs. Thigpen:

This is to inform you that the permit renewal/modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2014, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2009.

Permit No.: 1912-V1

public notice

c: EPA Region VI

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Union Carbide Corp - St Charles Operations
Agency Interest No.: 2083 Activity No.: PER20070032
Union Carbide Corp
Taft, St. Charles Parish, Louisiana**

I. Background

Union Carbide Corporation (UCC), a subsidiary of the Dow Chemical Company, operates the St. Charles Operations' Specialty Products Unit (SPU), an existing chemical manufacturing facility that began operation prior to 1969. The SPU currently operates under Permit No. 1912-V0, issued March 12, 2003.

This is the Part 70 operating permit for the facility.

II. Origin

A permit application and Emission Inventory Questionnaire were submitted by Union Carbide Corp on September 12, 2007 requesting a Part 70 operating permit renewal/modification. Additional information dated June 12, July 28, and October 17, 2008, as well as an updated application dated November 20, 2008 was also submitted.

III. Description

Specialty Products Unit (SPU) is composed of four production lines:

- Line 1 produces methoxydihydropyran (MDP) and tetrahydrobenzaldehyde (THBA); The SPU Line 1 (THBA production only) is subject to the Synthetic Organic Chemical Manufacturing Industry Hazardous Organic NESHAP (SOCMI HON) program in 40 CFR Part 63.
- Line 2 produces lyral, myrac aldehyde, and aldehyde AA. This line is currently out of service;
- Line 3 produces methylmercaptopropionaldehyde (MMP); and
- Line 4 produces MDP.

There are three basic products generated in SPU:

Product 1-Tetrahydrobenzaldehyde (THBA)

THBA is produced by the reaction between acrolein and butadiene. After passing the solution through reactors, the reactor effluent, including unreacted raw materials, is stripped from the solution and recycled as feed to the system. The product containing stream passes through a

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- Deletions of emissions associated with Line 2 production;
- Updates to Regulatory Tables and Section 2.0, Regulatory Applicability, to include MON MACT and OLD MACT;
- Incorporation of Notification of Case-by-Case Insignificant Activity emission changes from February 2007; and
- Throughput increase for EIQ No. 880 to account tank-to-tank transfers.
- Include Diesel Generator (EIQ 3004), previously permitted as an insignificant activity, as a permitted source.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	1.49	1.55	0.06
SO ₂	8.39	5.35	-3.04
NO _X	16.97	19.80	2.83
CO	87.22	87.45	0.23
VOC *	5.43	5.61	0.18
Hydrogen Sulfide		<0.01	<0.01

* VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Acetaldehyde	0.06	0.23	0.17
Acrolein	0.23	0.33	0.10
Benzene	<0.01	<0.01	-
Biphenyl	<0.01	-	-<0.01
1,3 Butadiene	0.30	0.26	-0.04
Catalyst (Class III TAP)	<0.01	<0.01	-
Glycol Ether (Class II-S)	0.49	0.34	-0.15
Inhibitor (Class III TAP)	<0.01	<0.01	-
Methanol	0.02	0.01	-0.01
Naphthalene	<0.01	-	-<0.01
Propionaldehyde	0.03	<0.01	-0.03
Toluene	<0.01	-	-<0.01
Xylene	<0.01	-	-<0.01
Total		1.17	

Other VOC (TPY): 4.44

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IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on XXXXX XX, 2009; and in the *St. Charles Herald Guide*, Boutte, on XXXXXX XX, 2009. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on XXXXX XX 2009. The draft permit was also submitted to US EPA Region VI on XXXXX XX, 2009. All comments will be considered prior to the final permit decision.

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VII. Effects on Ambient Air

Dispersion Model(s) Used: none

Emissions were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. The proposed project did not require the applicant to model emissions.

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})

VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates - tons				
		PM ₁₀	SO ₂	NO _x	CO	VOC
Disconnecting Rail Car/ Truck Hoses	3300 events/yr	-	-	-	-	0.17
Filter Changes	50 events/yr	-	-	-	-	0.003
Samples	2000 events/yr	-	-	-	-	0.01
Maintenance Activities from Thermal Oxidizer		<0.01	<0.01	<0.01	<0.01	0.02
Catalyst Day Tank (3001A & 3001B)	25 events/yr					
Acrolein Weigh Tank Vent Header (3009A & 3009B)	12 events/yr					
MeSH Weigh Tank, Maintenance Vent Header (3010A & 3010B)	12 Events/yr					
MMP Hold Tank Maintenance Vent Header (3011A & 3011B)	4 events/yr					
Main MeSH Storage & Clean-up Vent Header (856 / 856A)	12 events/yr					

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IX. Insignificant Activities

ID No.:	Description	Citation
832	Tank D-1260R (Line 4)	Insignificant Activity per LAC 33:III.501.B.5.A.4.
833	Tank C-1263 (Lines 1 & 4)	Insignificant Activity per LAC 33:III.501.B.5.A.4.
834	Line 1 ETG Tank (Line 1)	Insignificant Activity per LAC 33:III.501.B.5.A.3.
850	Tank 3449 (Diesel) (Lines 1, 3, 4)	Insignificant Activity per LAC 33:III.501.B.5.A.3.
854	Line 1 Seal Oil Surge Tank V-166 (Pump Seal Oil)	Insignificant Activity per LAC 33:III.501.B.5.A.2.
863	D-1271 (Propylene Glycol) (Line 3)	Insignificant Activity per LAC 33:III.501.B.5.A.3.
864	C-1289 (Acetic Acid) (Line 3)	Insignificant Activity per LAC 33:III.501.B.5.A.3.
877	Line 4 Inhibitor Storage Tank	Insignificant Activity per LAC 33:III.501.B.5.A.3.
878	Line 4 Inhibitor Mix Tank	Insignificant Activity per LAC 33:III.501.B.5.A.3.
881	Line 4 ETG Tank	Insignificant Activity per LAC 33:III.501.B.5.A.3.
882	Line 4 Seal Oil Tank (V-766)	Insignificant Activity per LAC 33:III.501.B.5.A.2.
3016	Diesel Oil Shift Tank	Insignificant Activity per LAC 33:III.501.B.5.A.3.
	Laboratory Vent Hoods	Insignificant Activity per LAC 33:III.501.B.5.A.6.

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Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		2	5▲	9	11	13	15	2103	2104*	2107	2111	2113	2115	2121	22	29*	51*	53*	56	59*
A1-2083	Facility Wide	1	1	1	1												1	1	1	1
UNF007	Specialty Products Unit	1															1			
GRP0154	Line 1- MDP & THBA																			
EQT0842	131A - SPU Process Flare (ID-1901-B)																1			
FUG0019	196R – Equipment Fugitive Emissions																1			
EQT0843	661 – Butadiene Field Storage Tank (ID 2541)																1			
EQT0844	662 – Butadiene Field Storage Tank (ID 2542)																1			
EQT0848	830 – Thermal Oxidizer/Scrubber ER V-1148																1			
EQT0849	835 – Line 1 Heavy Residue Tank (ID 3434)																1			
EQT0850	836 – Line 1 Inhibitor Tank (ID 3430T)																1			
EQT0851	837 – Line 1 Inhibitor Storage Tank (ID 3430B)																1			
EQT0852	838A – Line 1 Make 1 tank (ID 3435)																1			
EQT0853	838B – Line 1 Make Tank (ID 3437)																1			
EQT0854	838C – Line 1 Re-Run Tank (ID 3439)																1			
EQT0855	839 – Line 1 Light Residue Tank (ID 3438)																1			
EQT0856	840 – Cyclohexane Storage Tank (ID 3436)																1			
EQT0857	841A – Acrolein Storage Tank (ID 3411)																1			

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ID No.: Description	LAC 33:III.Chapter																		
	2	5 ▲	9	11	13	15	2103	2104*	2107	2111	2113	2115	2121	22	29*	51*	53*	56	59*
EQT0858 841B – Acrolein Storage Tank (ID 3412)																			
EQT0859 841C – Acrolein Storage Tank (ID 341C)																			1
EQT0860 845A – Train 1 East Day Tank (ID-3423)																			1
EQT0861 845B – Train 1 West Day Tank (ID 3424)																			1
EQT0862 846 – North Brine Tank (ID C-1237)																			3
EQT0863 847 – WW-Clean-up Tank (CUT) (ID 1136)																			1
EQT0864 851 – Line 1 Recycle Tank (ID C-101)																			1
EQT0865 852 – Line 1 Feed Pot (ID C-102)-																			1
EQT0866 859 – Tank Car Rack																			1
EQT0867 861 – Tank Truck Rack																			1
EQT0868 862 – MMP Unit Storage Tank (ID-3420)																			1
EQT0869 866 – Acrolein Buffer Tank																			1
EQT0870 871 – Line 4 Feed Pot (ID C-702)																			1
EQT0871 874 – Line 4 Make Tank (ID-3935)																			1
EQT0872 875 – Line 4 Make Tank (ID-3937)																			1
EQT0873 876 – Line 4 Re-Run Tank (ID-3939)																			1
EQT0874 879 – MDP Heavy Residue Tank (ID-3934B)																			1
EQT0875 880 – VME Recycle Tank (ID-3938)																			1

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ID No.: Description	LAC 33.III.Chapter																		
	2.	5▲	9	11	13	15	2103	2104*	2107	2111	2113	2115	2121	22.	29*	51*	53*	56	59*
EQT0876 884 – West Catalyst Storage Tank (ID C-1206)							3												
EQT0877 3000 – MMP Bulk Storage Tank (ID-3441)																			1
EQT0878 3002A – Train 2 West Day Tank (ID C-2274)							3												1
EQT0879 3002B – Train 2 East Day Tank (ID C-2275)							3												1
EQT0880 3004 – Diesel Generator							1	1	1										2
EQT0881 3006 – Line 4 Recycle Tank (ID C-704)									1										1
EQT0882 3007 – South Brine Tank (ID C-2237)										3									3
EQT0883 3008 – East Catalyst Storage Tank (ID C-2206)										3									1
EQT0884 3009A – Train 1 Acrolein Weigh Tank (Process											1								3
EQT0885 3009B – Train 2- Acrolein Weigh Tank (Process											1								3
EQT0886 3001A – Train 1 Catalyst Day Tank (Process											1								3
EQT0887 3001B – Train 2 Catalyst Day Tank (Process											1								3
EQT0888 3010A – Train 1 MeSH Weigh Tank (Process											1								3
EQT0889 3010B – Train 2 MeSH Weigh Tank (Process											1								3
EQT0890 3011A – Train 1 Hold Tank (Process Vessel)											1								3
EQT0891 3011B – Train 2 Hold Tank (Process Vessel)												1							3
EQT0892 3012 – Line 1 Hotwell (ID C-136)													1						1
EQT0894 3013 – Line 4 Hotwell (ID C-736)														1					1

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Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		2	5▲	9	11	13	15	2103	2104*	2107	2111	2113	2115	2121	22	29*	51*	53*	56	59*
EQT0895	3014 - Caustic Waste Treatment Tank (C-1011)																			1
EQT0897	3015 - Process Sewer Sump Tank (ID C-1021)																			1
EQT0898	3017 - Line 1 & 4 Flare Header Knock Out Pot																			1
EQT0899	3018 - Line 1 & 4 Incinerator Header Knock Out																			1
EQT0900	3019 - MON Stripper																			1
EQT0901	Column - Condensers																			1
EQT0902	WW-1 - SOCMI Wastewater Streams (Line 1 decanter tails THBA Production)																			1
EQT0903	WW-2 - Process Wastewater Streams (Line 2 & 4 process wastewater streams - residue loading and																			1
EQT0904	WW-3 - MON Wastewater Streams (Line 4 decanter tails -MDP Production)																			1
EQT0905	WW-4 - MON Maintenance Wastewater Streams (Line 3 and 4)																			1
EQT0906	WW-5 - MON Wastewater Streams (Flare base water streams)																			1
EQT0916	856 - Tank (C-1201)																			1
EQT980	SPU-Heat Exchangers																			1
EQT981	856A - South MeSH Tank (C-1201) (pressure tank)																			1
RJPI1131	872 - Process Vent (ID C-720)																			3

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ID No.:	Description	LAC 33:III.Chapter																		
		2	5▲	9	11	13	15	2103	2104*	2107	2111	2113	2115	2121	22	29*	51*	53*	56	59*
RLP1132	873 – Column Vent (ID C-750)															3				
RLP1133	883A – Batch Process Vent C-319																		1	
RLP1134	883B – Batch Process Vent (ID C-1319)																		1	
RLP1135	885 – Process Column Vent (ID C-120)															3				1
RLP1136	886 – Column Vent (ID C-150)															1				1
RLP1137	888 – Column Vent (ID C-130)															1			3	
																			3	

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR						
		A	Kb	VV	III	NNN	RRR	A	FF	A	F	G	H	S	U	EE	FF	GGG	EE	FF	GG	64	68	70	82	
AI-2083	Facility Wide	1						1	1	1									1			1	1	1	1	
UNF007	Specialty Products Unit																		3	1	1	3				
GRP0154	Line 1, MDP & THBA															1	1	1								
EQT0842	131A – SPU Process Flare (ID 1901-B)															1	1	1								
FUG0019	196R – Equipment Fugitive Emissions	3																	1	1	1					
EQT0843	661 – Butadiene Field Storage Tank (ID 2541)	3																	1							
EQT0844	662 – Butadiene Field Storage Tank (ID 2542)	3																	3							
EQT0848	830 – Thermal Oxidizer/Scrubber ER V-1148																		1	1						
EQT0849	835 – Line 1 Heavy Residue Tank (ID 3434)	3																	3							
EQT0850	836 – Line 1 Inhibitor Tank (ID 3430T)	3																	3							
EQT0851	837 – Line 1 Inhibitor Storage Tank (ID 3430B)	3																	3							
EQT0852	838A – Line 1 Make Tank (ID 3435)	3																	3							
EQT0853	838B – Line 1 Make Tank (ID 3437)	3																	3							
EQT0854	838C – Line 1 Re-Run Tank (ID 3439)	3																	3							

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ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHPAP						40 CFR							
		A	Kb	VV	III	NNN	RRR	A	FF	A	F	G	H	SS	UU	EE	FF	GGG	GG	64	68	70	82				
EQT0855	839 – Line 1 Light Residue Tank (ID 3438)	3												3													
EQT0856	840 – Cyclohexane Storage Tank (ID 3436)	3												3													
EQT0857	841A – Acrolein Storage Tank (ID 3411)	3												1													
EQT0858	841B – Acrolein Storage Tank (ID 3412)	2												3													
EQT0859	841C – Acrolein Storage Tank (ID 341C)	2												3													
EQT0860	845A – Train 1 East Day Tank (ID 3423)	3												3													
EQT0861	845B – Train 1 West Day Tank (ID 3424)	3												3													
EQT0862	846 – North Brine Tank (ID C-1237)	3												3													
EQT0863	847 – WW-Clean-up Tank (CUT) (ID 1136)	3												1													
EQT0864	851 – Line 1 Recycle Tank (ID C-101)	3												3													
EQT0865	852 – Line 1 Feed Pot (ID C-102)	3												3													
EQT0866	859 – Tank Car Rack													3													
EQT0867	861 – Tank Truck Rack													3													
EQT0868	862 – MMP Unit Storage Tank (ID 3420)	3												3													
EQT0869	866 – Acrolein Buffer Tank	3												3													

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHPAP						40 CFR						
		A	Kb	VV	III	NNN	RRR	A	FF	A	F	G	H	SS	UU	EE	FF	GGG	GG	64	68	70	82			
EQT0870	871 – Line 4 Feed Pot (ID C-702)	3																		3						
EQT0871	874 – Line 4 Make Tank (ID-3935)	3																		1						
EQT0872	875 – Line 4 Make Tank (ID-3937)	3																		1						
EQT0873	876 – Line 4 Re-Run Tank (ID-3939)	3																		1						
EQT0874	879 – MDP Heavy Residue Tank (ID-3934B)	3																		1						
EQT0875	880 – VME Recycle Tank (ID-3938)	3																		1						
EQT0876	884 – West Catalyst Storage Tank (ID C-1206)	3																		3						
EQT0877	3000 – MMP Bulk Storage Tank (ID-3441)	3																		1						
EQT0878	3002A – Train 2 West Day Tank (ID C-2274)	3																		1						
EQT0879	3002B – Train 2 East Day Tank (ID C-2275)	3																		1						
EQT0880	3004 – Diesel Generator	3																		3						
EQT0881	3006 – Line 4 Recycle Tank (ID C-701)	3																		3						
EQT0882	3007 – South Brine Tank (ID C-2237)	3																		3						
EQT0883	3008 – East Catalyst Storage Tank (ID C-2206)	3																		3						
EQT0884	3009A – Train 1 Acrolein Weigh Tank (Process Vessel)	3																		3						

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR						
		A	Kb	VV	III	NNN	RRR	A	FF	A	F	G	H	SS	UU	EE	FF	GGG	GG	64	68	70	82			
EQT0885	3009B – Train 2- Acrolein Weigh Tank (Process Vessel)	3																								3
EQT0886	3001A – Train 1 Catalyst Day Tank (Process Vessel)	3																								3
EQT0887	3001B – Train 2 Catalyst Day Tank (Process Vessel)	3																								3
EQT0888	3010A – Train 1 MeSH Weigh Tank (Process Vessel)	3																								3
EQT0889	3010B – Train 2 MeSH Weigh Tank (Process Vessel)	3																								3
EQT0890	3011A – Train 1 Hold Tank (Process Vessel)	3																								3
EQT0891	3011B – Train 2 Hold Tank (Process Vessel)	3																								3
EQT0892	3012 – Line 1 Hotwell (ID C-136)																									3
EQT0894	3013 – Line 4 Hotwell (ID C-736)																									3
EQT0895	3014 – Caustic Waste Treatment Tank (C-1011)	3																								1
EQT0897	3015 – Process Sewer Sump Tank (ID C-1021)	3																								1
EQT0898	3017 - Line 1 & 4 Flare Header Knock Out Pot	3																								3
EQT0899	3018 - Line 1 & 4 Incinerator Header Knock Out Pot	3																								3
EQT0900	3019 - MON Stripper																									1
EQT0901	Column – Condensers																									3

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 Agency Interest No.: 2083
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR							
		A	Kb	VV	III	NNN	RRR	A	FF	A	F	G	H	SS	UU	EE	FF	GGG	GG	64	68	70	82				
EQT0902	WW-1 – SOCMI Wastewater Streams (Line 1 decanter tails)																										
EQT0903	WW-2 – Process Wastewater Streams (Line 2 & 4 process wastewater streams – residue loading and hotwell)																										
EQT0904	WW-3 – MCN Wastewater Streams (Line 4 decanter tails -MDP Production)																										
EQT0905	WW-4 – MCN Maintenance Wastewater Streams (Line 3 and 4)																										
EQT0906	WW-5 – MCN Wastewater Streams (Flare base water streams)																										
EQT0916	856 – North MeSH Tank (C-1201) (pressure tank)	3															3										
EQT980	SPU-Heat Exchangers																3										
EQT981	856A - South MeSH Tank (C-1202) (pressure tank)	3															3										
RLP1131	872 – Process Vent (ID C-720)							3		3							3										
RLP1132	873 – Column Vent (ID C-750)							3									3										
RLP1133	883A – Batch Process Vent C-319								3								3										
RLP1134	883B – Batch Process Vent (ID C-1319)									3								3									
RLP1135	885 – Process Column Vent (ID C-120)										3							1									2
RLP1136	886 – Column Vent (ID C-150)										3							3									2
RLP1137	888 – Column Vent (ID C-130)										3							3									2

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KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
UNF0007 SPU	Compliance Assurance Monitoring [40 CFR 64.2]	EXMPT / DOES NOT APPLY. Three sources (EIQ Nos. 131A, 885, 883A/883B) are exempt from CAM as they are subject to emissions standards of SOCMI HON (proposed after 11-15-1990) and are exempt per 40 CFR 64.2(b)(1)(i). All other sources do not meet the criteria specified in 40 CFR 64.2(a)
	NESHAP Subpart EEEE – Organic Liquid Distribution (OLD) [40 CFR 63.2430]	DOES NOT APPLY as per 40 CFR 63.2338(c)(1). The transfer racks are subject to NESHAP Subpart FFFF, and the storage tanks are either subject to SOCMI HON, or MON, consequently, OLD is not applicable.
EQT0842 131A-Process Flare	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY as per LAC 33:III.1502.A.3. Source emits less than STPY SO ₂

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
FUG0019 196R-Fugitives	NSPS Subpart VV- Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry [40 CFR 60.480-489]	DOES NOT APPLY. SPU does not produce as a final product or intermediate product any chemical listed in 40 CFR 60.489.
EQT843 661-Butadiene Field Storage	Fugitive Emission Control [LAC 33:III.2121]	DOES NOT APPLY. SPU does not produce as a final product or intermediate product any chemical in the Table 8 list.
	NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage tank was constructed or modified prior to July 23, 1984.
	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470]	DOES NOT APPLY. Tank is subject to SOCMHON Group 1 provisions; therefore, Subpart FFFF does not apply.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT0844 662-VME Field Storage Tank (ID- 2542)	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage tank was not constructed or modified after July 23, 1984.
	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	DOES NOT APPLY. Tank is not associated with THBA production in Line 1.
	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470]	DOES NOT APPLY. Vessel stores organic HAPs only as impurities.
EQT0848 830-Thermal Oxidizer/Scrubber ER V-1148	Emission Standards for Sulfur Dioxide Continuous Emissions Monitoring [LAC 33:III.1502A & LAC 33:III.1511.A]	EXEMPT. As per LAC 33:III.1503.C. Single point sources that emit or have the potential to emit less than 250 tons per year of sulfur compounds measured as sulfur dioxide may be exempted from the 2,000 ppm(y) limitation. This source emits < 250 TPY of SO ₂ . Keep records to show compliance with or exemption from the regulation as per LAC 33:III.1513.C.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT0849, EQT0850, EQT0851, EQT0855	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage tanks capacities less than 75 m ³ (19813 gals).
Storage Tanks 835, 836, 837, 839	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing (MON) Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	DOES NOT APPLY. Capacities are less than 38 m ³ (10,038 gals).
	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470]	EXEMPT. Tanks are part of Line 1 SOCMI HON CMPU; therefore, they are not part of a MON MCPU per 40 CFR 63.2435(b)(3).
	Storage of VOC Compounds ILAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage tanks capacities less than 75 m ³ (19813 gals).
EQT0852, EQT0853, EQT0854	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	DOES NOT APPLY. Vessels do not contain organic hazardous air pollutants (HAPs) when storing THBA, thus do not meet the definition of a NESHAP storage vessel as per 40 CFR 63.101.
Storage Tanks 838A, 838B, 838C	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470]	EXEMPT. Tanks are part of Line 1 SOCMI HON CMPU; therefore, they are not part of a MON MCPU per 40 CFR 63.2435(b)(3).
	Storage of VOC Compounds [LAC 33.III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT0856 840-Cyclohexane Storage Tank (ID 3436)	NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Storage tank capacity is less than 75 m ³ (19813 gals).
NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470]	DOES NOT APPLY. Capacity is less than 38 m ³ (10,038 gals).
EQT0857 841A - Acrolein Storage Tank (ID 3411)	NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	EXEMPT. Tank is part of Line 1 SOCMI HON production and is considered part of a SOCMI HON CMPU; therefore, it is not part of a MON MCPU per 40 CFR 63.2435(b)(3).
	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470]	DOES NOT APPLY. Complies with HON provisions in lieu of Kb per 40 CFR 63.110(b). A HON Group 1 or 2 storage vessel that is also subject to the provisions of 40 CFR Part 60, Subpart Kb is required to comply only with the provisions of Subpart G.
	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470]	EXEMPT. Tank is part of Line 1 SOCMI HON production and is considered part of a SOCMI HON CMPU; therefore, it is not part of a MON MCPU per 40 CFR 63.2435(b)(3).

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQTs 858 & 859	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	Exempt from controls per 40 CFR 60.112b(a). Capacity > 19,813 gals and < 39,890 gals. Vapor pressure > 2.17 psia, and < 4.0 psia. UCC will comply with NESHAP Subpart FFFF per 40 CFR 63.2535(c), in lieu of NSPS Subpart Kb.
EIQs 841B & 841C Acrolein Storage Tanks	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	DOES NOT APPLY. Tanks are not associated with THBA production in Line 1.
EQTs 860, 861, 868, 877, 878, & 879	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Tanks, EIQs 845A, 845B, 3002A & 3002B, have capacities < 39,890 gals and vapor pressures < 2.17 psia. Tanks, EIQs 862 and 3000 have capacities > 151 m ³ and vapor pressure < 0.51 psia.
EIQs 845A, 845B, 862, 3000, 3002A, & 3002B SPU Storage Tanks.	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)] Storage of VOC Compounds [LAC 33:III.2103]	DOES NOT APPLY. Tanks are not associated with THBA production in Line 1. DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

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ID No:	Requirement	Notes
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Capacity < 75 m ³ (19,813 gals).
EQT0862	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	DOES NOT APPLY. Tank is not associated with Line 1 (THBA production).
846- North Brine Tank (ID C-1237)	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470]	DOES NOT APPLY> Tank does not meet the definition of a storage vessel as it does not store HAPs.
	Storage of VOC Compounds [LAC 33.III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.
	Comprehensive Toxic Air Pollutant Emission Control program. [LAC 33.III.5109]	DOES NOT APPLY. Tank does not store TAPs.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT0863 EIQ 847 www-Wastewater Tank-Clean-up Tank (CUT) (ID 1136)	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Capacity < 75 m ³ (19,813 gals).
EQT0895 EQT0897 EIQs 3014 – Wastewater Treatment Tank (ID C- 101) 3015 – Wastewater Tank-Process Sewer Sump Tank (ID C- 1021)	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Capacity < 75 m ³ (19,813 gals).
	Storage of VOC Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT0864	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Capacity < 75 m ³ (19,813 gals).
EQT0865 851-Line 1 Recycle Tank (ID C-101)	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	DOES NOT APPLY. Capacities are less than 38 m ³ (10,038 gals), which by definition are not storage vessels per 40 CFR 63.101.
852-Line 1 Feed Pot (ID c-102)	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470]	EXEMPT. Tank is part of Line 1 SOCMI HON production and is considered part of a SOCMI HON CMPU; therefore, it is not part of a MON CMPU per 40 CFR 63.2435(b)(3).

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT0916	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY as per 40 CFR 60.110b(d)(2). Tanks are pressure vessels designed to operate in excess of 204.9 kPa and without emissions to the atmosphere.
856-Tank (C-1201)	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	DOES NOT APPLY. Tank is not associated with Line 1 (THBA production).
EQT0981	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470]	DOES NOT APPLY> Tank stores HAPs only as impurities.
856A-Tank (C-1202)	Storage of VOC Compounds [LAC 33:III.2103]	DOES NOT APPLY. Tanks are pressure vessels and do not vent to the atmosphere.
	Comprehensive Toxic Air Pollutant Emission Control program. [LAC 33:III.5109]	DOES NOT APPLY. Tanks are pressure vessels (pressure > 204.9 kPa) and do not vent to the atmosphere.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT0866 & EQT0867	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.126(b)(2)]	DOES NOT APPLY. EIQ No. 861 loading point does not meet the definition of Transfer Operations according to 40 CFR 63.101 as the liquids transferred only contain HAPs as impurities. EIQ No. 859 is not associated with Line 1 (THBA production) and therefore not subject to HON
859-Tank/Rail Car Rack	Control of Emissions of Organic Compounds – VOC Loading [LAC 33:III.2107]	DOES NOT APPLY as per LAC 33:III.2107.A. Liquids loaded at these points have vapor pressures < 1.5 psia.
861-Tank Truck Rack	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b])	DOES NOT APPLY. Capacity < 75 m ³ (19,813 gals).
EQT0869	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	DOES NOT APPLY. Capacity < 38 m ³ (10,038) which, by definition is not a storage vessel, per 40 CFR 63.101.
866 - Acrolein Buffer Tank	Storage of VOC Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Capacity < 75 m ³ (19,813 gals).
EQT0870 & EQT0881	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	DOES NOT APPLY. Tank is not associated with Line 1 (THBA production).
871 - Line 4 Feed Pot (ID C-702) 3006 - Line 4 Recycle Tank (ID C-701)	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470]	DOES NOT APPLY. Tanks do not meet the definition of a storage tank for the purposes of this Subpart as they are surge control vessels. These surge vessels meet the capacity and vapor pressure thresholds for a Group 2 storage tank; therefore are not required to meet emission limits and work practice standards for storage tanks.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
	NSPS Subpart NNN – SOCMI Distillation Operations [40 CFR 60.661]	DOES NOT APPLY. This unit does not produce as a product, co-product, by-product or intermediate any chemicals listed in 40 CFR 60.667.
RLP1131	NSPS Subpart RRR – SOCMI Reactor Processes [40 CFR 60.702(b)]	DOES NOT APPLY. This is not a reactor per 40 CFR 60.701.
872-Process Vent (ID C-720)	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	DOES NOT APPLY. Tank is not associated with Line 1 (THBA production).
	Control Emissions of Organic Compounds – Waste Gas Disposal [LAC 33.III.2115.H.1.c]	DOES NOT APPLY. as per LAC 33:III.2115, this section does not apply to waste gas streams that are required to by another federal or state regulation to implement controls that reduce VOC to a more stringent standard than would be required by this section. Complies with NESAHHP Subpart FFFF (MON).

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ID No:	Requirement	Notes
NSPS Subpart NNN – SOCMII Distillation Operations [40 CFR 60.661]	DOES NOT APPLY. This unit does not produce as a product, co-product, by-product or intermediate any chemicals listed in 40 CFR 60.667.	
NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	DOES NOT APPLY. Tank is not associated with Line 1 (THBA production).	DOES NOT APPLY. as per LAC 33:III.2115, this section does not apply to waste gas streams that are required to by another federal or state regulation to implement controls that reduce VOC to a more stringent standard than would be required by this section. Complies with NESAAHP Subpart FFFF (MON).
Control Emissions of Organic Compounds – Waste Gas Disposal [LAC 33:III.2115.H.1.c]		

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQTs 871, 872, 873, & 874	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Capacity < 75 m ³ (19,813 gals).
EIQs 874, 875, 876, & 879	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	DOES NOT APPLY. Tanks not associated with Line 1 (THBA production).
SPU storage tanks	Storage of VOC Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.
EQT0875 880 VME Recycle Tank (ID-3938)	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Capacity < 75 m ³ (19,813 gals).
	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	DOES NOT APPLY. Tank's not associated with Line 1 (THBA production).

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
RLP1133, RLP1134 883A & Batch Process Vents (ID C-319) & (ID C-1319)	NSPS Subpart RRR – SOCMI Reactor Processes [40 CFR 60.700 (a)]	DOES NOT APPLY. Do not produce any of the chemicals listed in 40 CFR 60.707 as a product, co-product, or intermediate.
EQT0876 EQT0883 884 - West Catalyst Storage Tank (ID C-1206) 3008 - East Catalyst Storage Tank (ID C-2206)	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b] NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.113(a)(1)]	DOES NOT APPLY. Capacity < 75 m ³ (19,813 gals). DOES NOT APPLY. Tank is not associated with Line 1 (THBA production).
	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470] Storage of VOC Compounds [LAC 33:III:2103]	DOES NOT APPLY. Tanks do not store or emit any HAPs. DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

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ID No:	Requirement	Notes
	NSPS Subpart NNN – SOCMI Distillation Operations [40 CFR 60.661]	DOES NOT APPLY. This unit does not produce as a product, co-product, by-product or intermediate any chemicals listed in 40 CFR 60.667.
RLP1135 885 - Process Column Vent (ID C-120)	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470]	EXEMPT. Vent is part of Line 1 SOCMI HON production and are considered part of a SOCMI HON CMPU; therefore, they are not part of a MON MCPU per 40 CFR 63.2435(b)(3).
	Control Emissions of Organic Compounds – Waste Gas Disposal [LAC 33:III.2115.H.1.c]	DOES NOT APPLY. as per LAC 33:III.2115, this section does not apply to waste gas streams that are required to by another federal or state regulation to implement controls that reduce VOC to a more stringent standard than would be required by this section. Complies with NESAHP Subpart G (HON).

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ID No:	Requirement	Notes
	NSPS Subpart NNN – SOCMI Distillation Operations [40 CFR 60.661]	DOES NOT APPLY. This unit does not produce as a product, co-product, by-product or intermediate any chemicals listed in 40 CFR 60.667.
RLP1136 RLP1137 888-Column Vent (ID C-150) 888-Column Vent (ID C-130)	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.113(a)(1)]	DOES NOT APPLY. Not a process vent per 40 CFR 63.101 as the vent stream does not contain greater than 0.005 weight percent total organic HAP at the point of entry into the control device.
	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470]	EXEMPT. Vent is part of Line 1 SOCMI HON production and are considered part of a SOCMI HON CMPU; therefore, they are not part of a MON MCPU per 40 CFR 63.2435(b)(3).
	Control Emissions of Organic Compounds – Waste Gas Disposal [LAC 33:III.2115.H.1.c]	EXEMPT per LAC 33:III2115.H.1.C emits < 100 lbs VOC/24 hr period. Note: Vent stream routed to Flare (EQ 131A).
	Comprehensive Toxic Air Pollutant Emission Control program. [LAC 33:III.5109]	DOES NOT APPLY. Tank does not store TAPs.

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ID No:	Requirement	Notes
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Capacity < 75 m ³ (19,813 gals).
EQT0882	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	DOES NOT APPLY. Tank is not associated with Line 1 (THBAA production).
3007 - South Brine Tank (ID C-2237)	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470]	DOES NOT APPLY. Tanks do not store HAPs.
	Storage of VOC Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.
	Comprehensive Toxic Air Pollutant Emission Control program. [LAC 33:III.5109]	DOES NOT APPLY. Tank does not store TAPs.

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ID No:	Requirement	Notes
EQT0886 EQT887 EQT0884 EQT885 EQT0888 EQT889 EQT0890 EQT891 3001A - Train 1 3001B - Train 2 3009A - Train 1 3009B - Train 2 3010A - Train 1 3010B - Train 2 3011A - Train 1 3011B - Train 2 SPU Batch Process Vessel)	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Capacity < 75 m ³ (19,813 gals).
	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	DOES NOT APPLY. Tank is not associated with Line 1 (THBA production).
	NESHAP Subpart FFFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470]	DOES NOT APPLY. Tanks do not meet the definition of a storage vessel or batch process vent, as they are pressurized process vessels that do not vent.
	Comprehensive Toxic Air Pollutant Emission Control program. [LAC 33:III.5109]	DOES NOT APPLY. Tank does not vent to the atmosphere.

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ID No:	Requirement	Notes
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Capacity < 75 m ³ (19,813 gals).
EQT0898 EQT0899	NESHAP Subpart G- National Emission Standards for Organic Hazardous Air Pollutants From Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater [40 CFR 63.119(a)]	DOES NOT APPLY. Tank is not associated with Line 1 (THBA production).
3017 -Line 1 & 4 Flare Header Knock Out Pot 3018 - Line 1 & 4 Incinerator Header Knock Out Pot	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) [40 CFR 63.2470]	DOES NOT APPLY. These “tanks” are simply wide spots in the closed vent system (CVS) which are required to remove liquid to avoid damage to a control device. They are not considered tanks with respect to the MON as they are not storage vessels.
	Storage of VOC Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

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ID No:	Requirement	Notes
EQT0880	NSPS Subpart III-Stationary Compression Ignition Internal Combustion Engines [40 CFR 60.4200(a)(2)]	DOES NOT APPLY. Engines have not been constructed, modified, or reconstructed after July 11, 2005.
3004 Diesel Generator	Emissions Standards for Sulfur dioxide: Emissions Limitations, All Other Sources [LAC 33:III.1503.C] Comprehensive Toxic Air Pollutant Emission Control program. [LAC 33:III.5109]	EXEMPT from emission limit. Each source emits 250 TPY of sulfur compounds measured as sulfur dioxide. Recordkeeping/Reporting needed as per LAC 33:III.1513 to demonstrate compliance. EXEMPT per LAC 33:III.5105.B.3.a. Emissions are from the combustion of Group 1 virgin fossil fuels.
EQT 0980	NESHAP Subpart F. National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry. Heat Exchange Systems Requirements [40 CFR 63.104] SPU-Heat Exchangers	DOES NOT APPLY. All heat exchangers are either not once-through systems as defined in 40 CFR 63.101, or cooling tower systems that contain less than 5% HAPs as per 40 CFR 63.104(a)(2). <i>Heat exchange system</i> means any cooling tower system or once-through cooling water system (e.g., river or pond water). A heat exchange system can include more than one heat exchanger and can include an entire recirculating or once-through cooling system.
	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON). Heat Exchange Systems [40 CFR 63.2490]	

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ID No:	Requirement	Notes
EQT0892	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON). Heat Exchange Systems [40 CFR 63.2470]	DOES NOT APPLY. The gas stream is not in the gas phase from the point of origin to the point of discharge to the atmosphere (or to the point of entry into a control device, if any).
EQT0894	Waste Gas Disposal[LAC 33:III.2115] 3012 - Line 1 Hotwell (ID C-136) 3013 - Line 4 Hotwell (ID C-736)	EXEMPT from control requirements. Vent streams are exempt per LAC 33:III.2115 H.1.c. (waste gas stream has less than 100 lbs VOC in any 24 hr. continuous period. Recordkeeping / Reporting needed as per LAC 33:III.2115.K to demonstrate compliance.
EQT0901	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON). Heat Exchange Systems [40 CFR 63.2430]	DOES NOT APPLY. Condensers do not meet the definition of a process condenser as per 40 CFR 63.2550.
EQT903	NESHAP Subpart FFFF - National Emissions Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON). Heat Exchange Systems [40 CFR 63.2470] WW-2 - Process wastewater Streams wastewater streams (Line 4 process - residue loading and hotwell exit)	DOES NOT APPLY. The total soluble HAP and partially soluble HAP annual average concentration is < 5 ppmv.

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The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

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- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];

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2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
 4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

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- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;

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- 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 - 5. changes in emissions would not qualify as a significant modification; and
 - 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
- 1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 - 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(ii)(B)]

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- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - 1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 - 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 - 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 - 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 - 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 - 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

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- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated September 12, 2007, along with supplemental information dated June 12, and July 28, , and October 17, 2008, as well as an updated application dated November 20, 2008.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

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- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
 - A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

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- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 - 1. Report by June 30 to cover January through March
 - 2. Report by September 30 to cover April through June
 - 3. Report by December 31 to cover July through September
 - 4. Report by March 31 to cover October through December
- D. Each report submitted in accordance with this condition shall contain the following information:
 - 1. Description of noncomplying emission(s);
 - 2. Cause of noncompliance;
 - 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 - 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 - 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
- B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
- C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
- D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

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- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services in accordance with LAC 33:I.Chapter 19.Facility Name and Ownership/Operator Changes Process.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of the permit may be appealed to the secretary in writing pursuant to La. R.S. 30:2024(A) within 30 days from notice of the permit action. A request may be made to the secretary to suspend those provisions of the permit specifically appealed. The permit remains in effect to the extent that the secretary or assistant secretary does not elect to suspend the appealed provisions as requested or, at his discretion, other permit provisions as well. Construction cannot proceed, except as specifically approved by the secretary or

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assistant secretary, until a final decision has been rendered on the appeal. A request for hearing must be sent to the Office of the Secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. For Part 70 sources, certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

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- 1 [40 CFR 60]
 - 2 [40 CFR 61.145.b.1]
 - 3 [40 CFR 61.148]
 - 4 [40 CFR 61.342.b]
 - 5 [40 CFR 61.342.c.1.(i)]
 - 6 [40 CFR 61.355]
 - 7 [40 CFR 61.356]
 - 8 [40 CFR 61.357.d.2]
 - 9 [40 CFR 61.357.d.6]
 - 10 [40 CFR 61.357.d.7]
 - 11 [40 CFR 61.357.d.8]
 - 12 [40 CFR 61]
 - 13 [40 CFR 63.7881.a]
 - 14 [40 CFR 63]
 - 15 [40 CFR 68.15.a]
 - 16 [40 CFR 68.15.b]
- All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
- Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]
- Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.
- Comply with the requirements of 40 CFR 61.342(c) through (h) no later than 90 days following the effective date, unless a waiver of compliance has been obtained under 40 CFR 61.11, or by the initial startup for a new source with an initial startup after the effective date. Subpart FF. [40 CFR 61.342(b)]
- Waste streams containing benzene: Remove or destroy the benzene contained in the waste using a treatment process or wastewater treatment system that complies with the standards specified in 40 CFR 61.348. Subpart FF. [40 CFR 61.342(c)(1)(i)]
- Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- Submit report: Due annually, beginning on the date that equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit updates to the information listed in 40 CFR 61.357(a)(1) through (a)(3) or, if the information in 40 CFR 61.357(a)(1) through (3) is not changed in the following year, a statement to that effect. Subpart FF. [40 CFR 61.357(d)(2)]
- Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]
- Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]
- Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]
- All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- When permittee conducts a site remediation, as defined in 40 CFR 63.7957, permittee shall comply with all applicable requirements of this subpart unless the site remediation is exempted under 40 CFR 63.7981(b) or (c). Subpart GGGG. [40 CFR 63.7881(a)]
- All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.
- The Specialty Products Unit does not produce benzene waste water.
- Develop a management system to oversee the implementation of the risk management program elements. [40 CFR 68.15(a)]
- Assign a qualified person or position that has the overall responsibility for the development, implementation, and integration of the risk management program elements. [40 CFR 68.15(b)]

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- 17 [40 CFR 68.15.c] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the names or positions of the people, other than the person identified under 68.15(b), who are assigned responsibility for implementing individual requirements of 40 CFR 68. [40 CFR 68.15(c)]
- 18 [40 CFR 68.15.c] Define the lines of authority through an organization chart or similar document when responsibility for implementing individual requirements of 40 CFR 68 is assigned to persons other than the person identified under 68.15(b). [40 CFR 68.15(c)]
- 19 [40 CFR 68.155] Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g).
- 20 [40 CFR 68.160] Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13).
- 21 [40 CFR 68.165] Submit in the RMP information the release scenarios specified in 68.165(a)(2). Include the data listed in 68.165(b)(1) through (13).
- 22 [40 CFR 68.168] Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a).
- 23 [40 CFR 68.175] Provide in the RMP the information indicated in 68.175(b) through (p).
- 24 [40 CFR 68.180] Provide in the RMP the emergency response information listed in 68.180(a) through (c).
- 25 [40 CFR 68.185.b] Submit in the RMP a single certification that, to the best of the signer's knowledge, information, and belief formed after reasonable inquiry, the information submitted is true, accurate, and complete. [40 CFR 68.185(b)]
- 26 [40 CFR 68.190.c] Submit revised registration to EPA: Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)]
- 27 [40 CFR 68.190] Review and update the RMP as specified in 68.190(b) and submit it in a method and format to a central point specified by EPA.
- 28 [40 CFR 68.200] Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided.
- 29 [40 CFR 68.22] Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences.
- 30 [40 CFR 68.25] Analyze the release scenarios in 68.25 as specified in 68.25(a) through (h).
- 31 [40 CFR 68.28] Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (e).
- 32 [40 CFR 68.30] Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
- 33 [40 CFR 68.33] List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
- 34 [40 CFR 68.36.b] Submit revised RMP: Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]
- 35 [40 CFR 68.36] Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more.
- 36 [40 CFR 68.39] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 68.39(a) through (e) on the offsite consequence analyses.

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- 37 [40 CFR 68.42] Include in the five-year accident history all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage. Include the information specified in 68.42(b)(1) through (10) for each accidental release.
- 38 [40 CFR 68.65.a] Compile written process safety information, which includes information pertaining to the hazards of the regulated substances used or produced by the process, information pertaining to the technology of the process, and information pertaining to the equipment in the process, before conducting any process hazard analysis required by 40 CFR 68. [40 CFR 68.65(a)]
- 39 [40 CFR 68.65.d.2] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that equipment complies with recognized and generally accepted good engineering practices. [40 CFR 68.65(d)(2)]
- 40 [40 CFR 68.65.d.3] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that existing equipment, designed and constructed in accordance with codes, standards, or practices that are no longer in general use, is designed, maintained, inspected, tested, and operating in a safe manner. [40 CFR 68.65(d)(3)]
- 41 [40 CFR 68.65.d.3] Determine that existing equipment, designed and constructed in accordance with codes, standards, or practices that are no longer in general use, is designed, maintained, inspected, tested, and operating in a safe manner. [40 CFR 68.65(d)(3)]
- 42 [40 CFR 68.67.a] Determine the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)]
- 43 [40 CFR 68.67.a] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)]
- 44 [40 CFR 68.67.b] Use one or more of the methodologies in Sec. 68.67(b)(1) through (b)(7) to determine and evaluate the hazards of the process being analyzed. [40 CFR 68.67(b)]
- 45 [40 CFR 68.67.d] Use a team with expertise in engineering and process operations to perform the process hazard analysis. Include at least one employee who has experience and knowledge specific to the process being evaluated, and at least one employee who is knowledgeable in the specific process hazard analysis methodology being used. [40 CFR 68.67(d)]
- 46 [40 CFR 68.67.e] Establish a system to promptly address the team's findings and recommendations; assure that the recommendations are resolved in a timely manner and that the resolution is documented; document what actions are to be taken; complete actions as soon as possible; develop a written schedule of when these actions are to be completed; communicate the actions to operating, maintenance and other employees whose work assignments are in the process and who may be affected by the recommendations or actions. [40 CFR 68.67(e)]
- 47 [40 CFR 68.67.e] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the resolution of the recommendations of the team performing the process hazard analysis, and what actions are to be taken. [40 CFR 68.67(e)]
- 48 [40 CFR 68.67.f] Update and revalidate the process hazard analysis at least every five years after the completion of the initial process hazard analysis, to assure that the process hazard analysis is consistent with the current process. Use a team that meets the requirements in Sec. 68.67(d). [40 CFR 68.67(f)]
- 49 [40 CFR 68.67.g] Retain process hazard analyses and updates or revalidations for each process covered by this section, as well as the documented resolution of recommendations described in Sec. 68.67(e), for the life of the process. [40 CFR 68.67(g)]

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- 50 [40 CFR 68.69.a]
 Develop and implement written operating procedures that provide clear instructions for safely conducting activities involved in each covered process consistent with the process safety information. Address steps for each operating phase, operating limits, safety and health considerations, and safety systems and their functions in the procedures. [40 CFR 68.69(a)]
- 51 [40 CFR 68.69.b]
 Make operating procedures readily accessible to employees who work in or maintain a process. [40 CFR 68.69(b)]
- 52 [40 CFR 68.69.c]
 Review operating procedures as often as necessary to assure that they reflect current operating practice, including changes that result from changes in process chemicals, technology, and equipment, and changes to stationary sources. Certify annually that these operating procedures are current and accurate. [40 CFR 68.69(c)]
- 53 [40 CFR 68.69.d]
 Develop and implement safe work practices to provide for the control of hazards during specific operations. [40 CFR 68.69(d)]
- 54 [40 CFR 68.71.a.1]
 Train each employee presently involved in operating a process, and each employee before being involved in operating a newly assigned process, in an overview of the process and in the operating procedures as specified in Sec. 68.69. Emphasize the specific safety and health hazards, emergency operations including shutdown, and safe work practices applicable to the employee's job tasks. [40 CFR 68.71(a)(1)]
- 55 [40 CFR 68.71.b]
 Provide refresher training at least every three years, and more often if necessary, to each employee involved in operating a process to assure that the employee understands and adheres to the current operating procedures of the process. [40 CFR 68.71(b)]
- 56 [40 CFR 68.71.c]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Prepare a record which contains the identity of the employee, the date of training required by 40 CFR 68.71, and the means used to verify that the employee understood the training. [40 CFR 68.71(c)]
- 57 [40 CFR 68.71.c]
 Ascertain that each employee involved in operating a process has received and understood the training required by Sec. 68.71. [40 CFR 68.71(c)]
- 58 [40 CFR 68.73.b]
 Establish and implement written procedures to maintain the ongoing integrity of process equipment listed in Sec. 68.73(a). [40 CFR 68.73(b)]
- 59 [40 CFR 68.73.c]
 Train each employee involved in maintaining the ongoing integrity of process equipment in an overview of that process and its hazards and in the procedures applicable to the employee's job tasks to assure that the employee can perform the job tasks in a safe manner. [40 CFR 68.73(c)]
- 60 [40 CFR 68.73.d.4]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document each inspection and test that has been performed on process equipment. Maintain records of the information specified in Sec. 68.73(d)(4). [40 CFR 68.73(d)(4)]
- 61 [40 CFR 68.73.e]
 Correct deficiencies in equipment that are outside acceptable limits before further use or in a safe and timely manner when necessary means are taken to assure safe operation. [40 CFR 68.73(e)]
- 62 [40 CFR 68.73.f]
 Assure that equipment as it is fabricated is suitable for the process application for which it will be used, in the construction of new plants and equipment. Perform appropriate checks and inspections to assure that equipment is installed properly and consistent with design specifications and the manufacturer's instructions. Assure that maintenance materials, spare parts and equipment are suitable for the process application for which they will be used. [40 CFR 68.73(f)]
- 63 [40 CFR 68.75.e]
 Inform employees involved in operating a process, and maintenance and contract employees whose job tasks will be affected, of a change in the process and train them in the change, prior to start-up of the process or affected part of the process. [40 CFR 68.75(c)]
- 64 [40 CFR 68.75.d]
 Update the process safety information required by Sec. 68.65 if a change covered by 68.75 results in a change in the process safety information. [40 CFR 68.75(d)]
- 65 [40 CFR 68.75.e]
 Update the operating procedures or practices required by Sec. 68.69 if a change covered by 68.75 results in a change in the operating procedures or practices. [40 CFR 68.75(e)]

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- 66 [40 CFR 68.75] Establish and implement written procedures to manage changes to process chemicals, technology, equipment, and procedures; and, changes to stationary sources that affect a covered process. Assure that the considerations specified in Sec. 68.75(b)(1) through (b)(5) are addressed prior to any change.
- 67 [40 CFR 68.77] Perform a pre-startup safety review for new stationary sources and for modified stationary sources when the modification is significant enough to require a change in the process safety information. Safety review must confirm the information specified in Sec. 68.77(b)(1) through (b)(4) prior to the introduction of regulated substances to a process.
- 68 [40 CFR 68.79.c] Develop a report of the findings of the compliance audit required by 40 CFR 68.79(a). [40 CFR 68.79(c)]
- 69 [40 CFR 68.79.d] Determine an appropriate response to each of the findings of the compliance audit. [40 CFR 68.79(d)]
- 70 [40 CFR 68.79.d] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the appropriate response to each of the findings of the compliance audit, and document that deficiencies have been corrected. [40 CFR 68.79(d)]
- 71 [40 CFR 68.79] Retain the two (2), most recent compliance audit reports. [40 CFR 68.79(e)]
- 72 [40 CFR 68.79] Conduct compliance audit: Due at least every three years. Certify compliance with the provisions of the prevention program to verify that procedures and practices developed under 40 CFR 68 are adequate and are being followed. Conduct compliance audit by at least one person knowledgeable in the process.
- 73 [40 CFR 68.81.c] Establish an incident investigation team consisting of at least one person knowledgeable in the process involved, including a contract employee if the incident involved work of the contractor, and other persons with appropriate knowledge and experience to thoroughly investigate and analyze the incident. [40 CFR 68.81(c)]
- 74 [40 CFR 68.81.e] Establish a system to promptly address and resolve the incident report findings and recommendations. [40 CFR 68.81(e)]
- 75 [40 CFR 68.81.e] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document resolutions and corrective actions of the incident report findings and recommendations. [40 CFR 68.81(e)]
- 76 [40 CFR 68.81] Conduct incident investigation: Due as promptly as possible, but not later than 48 hours following each incident which resulted in, or could reasonably have resulted in a catastrophic release of a regulated substance.
- 77 [40 CFR 68.81] Prepare a report at the conclusion of the incident investigation which includes, at a minimum, the information specified in 40 CFR 68.81(d)(1) through (5). Review the report with all affected personnel whose job tasks are relevant to the incident findings including contract employees where applicable. Retain the incident investigation reports for five years.
- 78 [40 CFR 68.83.a] Develop a written plan of action regarding the implementation of the employee participation required by 40 CFR 68. [40 CFR 68.83(a)]
- 79 [40 CFR 68.83.b] Consult with employees and their representatives on the conduct and development of process hazards analyses and on the development of the other elements of process safety management. [40 CFR 68.83(b)]
- 80 [40 CFR 68.83.c] Provide to employees and their representatives access to process hazard analyses and to all other information required to be developed under 40 CFR 68. [40 CFR 68.83(c)]
- 81 [40 CFR 68.85] Issue a hot work permit for hot work operations conducted on or near a covered process. Document in the permit that the fire prevention and protection requirements in 29 CFR 1910.252(a) have been implemented prior to beginning the hot work operations; indicate the date(s) authorized for hot work; and identify the object on which hot work is to be performed. Keep permit on file until completion of the hot work operations.

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	83 [40 CFR 68.87.b.2]	Inform contract owner or operator of the known potential fire, explosion, or toxic release hazards related to the contractor's work and the process. [40 CFR 68.87(b)(2)]
	84 [40 CFR 68.87.b.3]	Explain to the contract owner or operator the applicable provisions of 40 CFR 68 Subpart E. [40 CFR 68.87(b)(3)]
	85 [40 CFR 68.87.b.4]	Develop and implement safe work practices consistent with Sec. 68.69(d), to control the entrance, presence, and exit of the contract owner or operator and contract employees in covered process areas. [40 CFR 68.87(b)(4)]
	86 [40 CFR 68.87.b.5]	Periodically evaluate the performance of the contract owner or operator in fulfilling their obligations as specified in 40 CFR 68.87(c). [40 CFR 68.87(b)(5)]
	87 [40 CFR 68.95.a]	Develop and implement an emergency response program for the purpose of protecting public health and the environment. Include in the program the elements listed in 40 CFR 68.95(a)(1) through (4). [40 CFR 68.95(a)]
	88 [40 CFR 68.95.c]	Coordinate the emergency response plan developed under 68.95(a)(1) with the community emergency response plan developed under 42 U.S.C. 11003. Upon request of the local emergency planning committee or emergency response officials, promptly provide information necessary for developing and implementing the community emergency response plan. [40 CFR 68.95(c)]
	89 [40 CFR 82.Subpart F]	Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
	90 [LAC 33.III.1103]	Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33.III.111 or intensify an existing traffic hazard condition are prohibited.
	91 [LAC 33.III.1105.B]	Outdoor burning of waste material or other combustible material is prohibited.
	92 [LAC 33.III.1303.B]	Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
	93 [LAC 33.III.1305]	Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33.III.1305.A.1-7.
	94 [LAC 33.III.2113.A]	Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33.III.2113.A.1-5.
	95 [LAC 33.III.219]	Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
	96 [LAC 33.III.2901.D]	Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33.III.2901.G are prohibited.
	97 [LAC 33.III.2901.F]	If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33.III.2901.G.
	98 [LAC 33.III.5105.A.1]	Do not construct or modify any stationary source subject to any standard set forth in LAC 33.III. Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33.III.Chapter 51.Subchapter A, after the effective date of the standard.
	99 [LAC 33.III.5105.A.2]	Do not cause a violation of any ambient air standard listed in LAC 33.III.Table 51.2, unless operating in accordance with LAC 33.III.5109.B.

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- 100 [LAC 33:III.5105.A.3] Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 101 [LAC 33:III.5105.A.4] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- 102 [LAC 33:III.5107.A.1] Submit Annual Emissions Report. Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 103 [LAC 33:III.5107.A.2] Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502.
- 104 [LAC 33:III.5107.B.1] Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
- 105 [LAC 33:III.5107.B.2] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 106 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923.
- 107 [LAC 33:III.5107.B.4] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931.
- 108 [LAC 33:III.5107.B.5] Submit notification: Due to certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii.
- 109 [LAC 33:III.5109.C] Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- 110 [LAC 33:III.5113.A.1] Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.

Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.

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- 111 [LAC 33:III.5113.A.2] Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
- An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.
- Activate the preplanned abatement strategy listed in LAC 33:III.5609.A.1.b]
- 112 [LAC 33:III.5151.F.1.f] Activate the preplanned strategy listed in LAC 33:III.5609.A.2.b]
- 113 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5609.A.3.b]
- 114 [LAC 33:III.5609.A.2.b] Activate the preplanned abatement strategy listed in LAC 33:III.5609.A.3.b]
- 115 [LAC 33:III.5609.A.3.b] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7.
- 116 [LAC 33:III.5609.A] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- 117 [LAC 33:III.5901.A] Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.
- 118 [LAC 33:III.5907] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.
- 119 [LAC 33:III.5911.C] Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:III. Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:1.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases.
- 120 [LAC 33:III.919.D] **EQT 0842 131A - SPU Process Flare (ID-1901-B)**
- 121 [LAC 33:III.927] Monitor flares to assure that they are operated and maintained in conformance with their designs. Subpart A. [40 CFR 63.11(b)(1)] Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 63.11(b)(3)] Design and operate for no visible emissions, as determined using Test Method 22 in Appendix A of 40 CFR 60, except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 63.11(b)(4)] Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flame. Subpart A. [40 CFR 63.11(b)(5)] Which Months: All Year Statistical Basis: None specified Operate with a flame present at all times. Subpart A. [40 CFR 63.11(b)(5)]

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- 127 [40 CFR 63.11.b.6.(ii)] Heat content \geq 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted using the equation specified in 40 CFR 63.11(b)(6)(ii). Subpart A. [40 CFR 63.11(b)(6)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Exit Velocity $<$ 60 ft/sec (18.3 m/sec), as determined using the method specified in 40 CFR 63.11(b)(7)(i). Subpart A. [40 CFR 63.11(b)(7)(i)]
- Which Months: All Year Statistical Basis: None specified
- Comply with the provisions of 40 CFR 63.11(b). Subpart G. [40 CFR 63.113(a)(1)(i)]
- Presence of a flame monitored by the regulation's specified method(s) continuously. Subpart G. [40 CFR 63.114(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Conduct a visible emission test using the techniques specified in 40 CFR 63.11(b)(4). Subpart G. [40 CFR 63.116(a)(1)]
- Determine the net heating value of the gas being combusted using the techniques specified in 40 CFR 63.11(b)(6). Subpart G. [40 CFR 63.116(a)(2)]
- Determine the exit velocity using the techniques specified in either 40 CFR 63.11(b)(7)(i) or 63.11(b)(8), as appropriate. Subpart G. [40 CFR 63.116(a)(3)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.118(a)(1) through (a)(4). Subpart G. [40 CFR 63.118(a)]
- Report times and duration of all periods records in which pilot flame or flare are absent. [40 CFR 63.118(f)(5)]
- Inlet emissions: Organic HAP \geq 95 % reduction, except as provided in 40 CFR 63.119(e)(2). If a flare is used, it shall meet the specifications described in the general control device requirements of 40 CFR 63.11(b). Subpart G. [40 CFR 63.119(e)(1)]
- Which Months: All Year Statistical Basis: None specified
- Do not exceed 240 hours per year of periods of planned routine maintenance of the control device, during which the control device does not meet the specifications of 40 CFR 63.119(e)(1) or (e)(2). Subpart G
- (Applicable to tank vents only). [40 CFR 63.119(e)(3)]
- 134 [40 CFR 63.117.a]
- 135 [40 CFR 63.118.a]
- 136 [40 CFR 63.118.f.5]
- 137 [40 CFR 63.119.e.]
- 138 [40 CFR 63.119.e.]
- 139 [40 CFR 63.120.e.]
- 140 [40 CFR 63.120.e.2]
- 141 [40 CFR 63.120.e.4]
- 142 [40 CFR 63.122.g.3]
- Heat content \geq 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted using the equation specified in 40 CFR 63.11(b)(6)(ii). Subpart A. [40 CFR 63.11(b)(6)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Exit Velocity $<$ 60 ft/sec (18.3 m/sec), as determined using the method specified in 40 CFR 63.11(b)(7)(i). Subpart A. [40 CFR 63.11(b)(7)(i)]
- Which Months: All Year Statistical Basis: None specified
- Comply with the provisions of 40 CFR 63.11(b). Subpart G. [40 CFR 63.113(a)(1)(i)]
- Presence of a flame monitored by the regulation's specified method(s) continuously. Subpart G. [40 CFR 63.114(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Conduct a visible emission test using the techniques specified in 40 CFR 63.11(b)(4). Subpart G. [40 CFR 63.116(a)(1)]
- Determine the net heating value of the gas being combusted using the techniques specified in 40 CFR 63.11(b)(6). Subpart G. [40 CFR 63.116(a)(2)]
- Determine the exit velocity using the techniques specified in either 40 CFR 63.11(b)(7)(i) or 63.11(b)(8), as appropriate. Subpart G. [40 CFR 63.116(a)(3)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.118(a)(1) through (a)(4). Subpart G. [40 CFR 63.118(a)]
- Report times and duration of all periods records in which pilot flame or flare are absent. [40 CFR 63.118(f)(5)]
- Inlet emissions: Organic HAP \geq 95 % reduction, except as provided in 40 CFR 63.119(e)(2). If a flare is used, it shall meet the specifications described in the general control device requirements of 40 CFR 63.11(b). Subpart G. [40 CFR 63.119(e)(1)]
- Which Months: All Year Statistical Basis: None specified
- Do not exceed 240 hours per year of periods of planned routine maintenance of the control device, during which the control device does not meet the specifications of 40 CFR 63.119(e)(1) or (e)(2). Subpart G
- (Applicable to tank vents only). [40 CFR 63.119(e)(3)]
- Perform the compliance determination required by HON on May 11, 1999. [40 CFR 63.120(e)(1)]
- UCC completed the flare compliance determination required by HON on October 4, 2001. [40 CFR 63.120(e)(2)]
- Submit the information specified in 40 CFR 63.120(e)(2)(i) through (e)(2)(iii) as part of the Notification of Compliance Status required by 40 CFR 63.152(b). Subpart G
- UCC submitted the NOCS as required by HON on October 4, 2001. [40 CFR 63.120(e)(2)]
- Continue to meet the general control device requirements specified in 40 CFR 63.11(b). Subpart G. [40 CFR 63.120(e)(4)]
- Submit periodic reports including periods of when and why the flare does not meet requirements of 40 CFR 63.11(b) and planned routine maintenance performed on the flare including time and duration that the flare does not meet specifications of 40 CFR 63.119(e)(1). [40 CFR 63.122(g)(3)]

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- 143 [40 CFR 63.123.f.1-2] An owner or operator who elects to comply with 40 CFR 63.119(e) shall keep and maintain in a readily accessible location records of the measured values of the parameters monitored in accordance with 40 CFR 63.120(d)(5), and records of the planned routine maintenance performed on the control device including the duration of each time the control device does not meet the specifications of 40 CFR 63.119.(e)(1) or 40 CFR 63.11(b), as applicable, due to the planned routine maintenance. Such a record shall include the information specified in paragraphs (f)(2)(i) and (f)(2)(ii) of this section. [40 CFR 63.123(f)(1-2)]
- 144 [40 CFR 63.148.b.1.(i)] Vapor collection system or closed vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(1)(i)]
- 145 [40 CFR 63.148.b.1.(ii)] Which Months: All Year Statistical Basis: None specified Vapor collection system or closed vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(1)(ii)]
- 146 [40 CFR 63.148.b.2.(i)] Which Months: All Year Statistical Basis: None specified Vapor collection system or closed vent system (ductwork): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c) as applicable. Subpart G. [40 CFR 63.148(b)(2)(i)]
- 147 [40 CFR 63.148.b.2.(ii)] Which Months: All Year Statistical Basis: None specified Vapor collection system or closed vent system (ductwork): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.148(c), as applicable. Subpart G. [40 CFR 63.148(b)(2)(ii)]
- 148 [40 CFR 63.148.b.2.(iii)] Which Months: All Year Statistical Basis: None specified Vapor collection system or closed vent system (ductwork): Presence of a leak monitored by visual, audible, and/or olfactory annually, as applicable. Subpart G. [40 CFR 63.148(b)(2)(iii)]
- 149 [40 CFR 63.148.d] Which Months: All Year Statistical Basis: None specified Repair leaks (as indicated by an instrument reading greater than 500 ppm above background or by visual inspections) as soon as practicable, except as provided in 40 CFR 63.148(e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.148(d)(3). Subpart G. [40 CFR 63.148(d)]
- 150 [40 CFR 63.148.f.1] Vapor collection system or closed vent system (bypass lines): Flow monitored by flow indicator once every 15 minutes, as applicable. Install the flow indicator at the entrance to any bypass line. Subpart G. [40 CFR 63.148(f)(1)]
- 151 [40 CFR 63.148.f.2] Which Months: All Year Statistical Basis: None specified Vapor collection system or closed vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly, as applicable, to ensure the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.148(f)(2)]
- 152 [40 CFR 63.148.f.2] Which Months: All Year Statistical Basis: None specified Vapor collection system or closed vent system (bypass lines): Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration, as applicable. Subpart G. [40 CFR 63.148(f)(2)]
- 153 [40 CFR 63.148.j] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.148(i)(1) through (i)(6). Subpart G. [40 CFR 63.148(i)]
- 154 [40 CFR 63.148.j] Submit the information specified in 40 CFR 63.148(j)(1) through (j)(3) with the reports required by 40 CFR 63.182(h) or 40 CFR 63.152(c). Subpart G. [40 CFR 63.148(j)]

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Meet the requirements of NESHAP Subpart SS 40 CFR 63.982(b) and the requirements referenced therein, except when complying with 40 CFR 63.2485. Subpart FFFF

- 155 [40 CFR 63.2450(e.2)]
 Meet the requirements of NESHAP Subpart SS 40 CFR 63.982(b) and the requirements referenced therein, except when complying with 40 CFR 63.2485. Subpart FFFF
- 156 [40 CFR 63.2470(d)]
 [40 CFR 63.2450(e)(2)]
 Ensure that periods of planned routine maintenance of each control device, during which the control device does not meet the emission limit specified in 40 CFR 63. Subpart FFFF Table 4, do not exceed 240 hours per year (hr/yr). Subpart FFFF
 (Applicable to tank vents only). [40 CFR 63.2470(d)]
- 157 [40 CFR 63.2520.a]
 Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
- 158 [40 CFR 63.2525]
 Owners or operators that vent emissions through a closed vent system to a flare shall meet the requirements in 40 CFR 63.983 for closed vent systems; 40 CFR 63.987 for flares; 40 CFR 63.997 (a), (b) and (c) for provisions regarding flare compliance assessments; the monitoring, recordkeeping, and reporting requirements referenced therein; and the applicable recordkeeping and reporting requirements of 40 CFR 63.998 and 63.999. No other provisions of this subpart apply to emissions vented through a closed vent system to a flare. Subpart SS
- 159 [40 CFR 63.982.b]
 [40 CFR 63.982(b)]
 Closed-vent systems: Ensure that each closed-vent system is designed and operated to collect the regulated material vapors from the emission point, and to route the collected vapors to a control device. Subpart SS. [40 CFR 63.983(a)(1)]
 Closed-vent systems: Operate at all times when emissions are vented to, or collected by, them. Subpart SS. [40 CFR 63.983(a)(2)]
 Closed-vent systems (containing bypass lines): Flow monitored by flow indicator at the regulation's specified frequency, as applicable. Ensure that the flow indicator is capable of taking periodic readings. Install at the entrance to any bypass line. Subpart SS. [40 CFR 63.983(a)(3)(i)]
 Which Months: All Year Statistical Basis: None specified
 Closed-vent systems (containing bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration, as applicable. Subpart SS. [40 CFR 63.983(a)(3)(iii)]
 Closed-vent systems (hard-piping): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially. If an instrument reading of 500 ppmv above background is measured, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.983(d)(2). Subpart SS. [40 CFR 63.983(b)(1)(i)(A)]
 Which Months: All Year Statistical Basis: None specified
 Closed-vent systems (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart SS. [40 CFR 63.983(b)(1)(i)(B)]
 Which Months: All Year Statistical Basis: None specified
 Closed-vent systems (ductwork): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, as applicable. If an instrument reading of 500 ppmv above background is measured, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.983(d)(2). Subpart SS. [40 CFR 63.983(b)(1)(ii)]
 Which Months: All Year Statistical Basis: None specified
- 160 [40 CFR 63.983.a.1]
 [40 CFR 63.983.a.2]
 161 [40 CFR 63.983.a.3.(i)]
 162 [40 CFR 63.983.a.3.(ii)]
 163 [40 CFR 63.983.a.3.(iii)]
 164 [40 CFR 63.983.b.1.(i)(A)]
 165 [40 CFR 63.983.b.1.(i)(B)]
 166 [40 CFR 63.983.b.1.(ii)]

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- 167 [40 CFR 63.983.b.2.(i)] Closed-vent systems (unsafe-to-monitor): Determine that the equipment is unsafe-to-inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with 40 CFR 63.983(b)(1). Comply with this requirement instead of the requirements in 40 CFR 63.983(b)(1), as applicable. Subpart SS. [40 CFR 63.983(b)(2)(i)]
- 168 [40 CFR 63.983.b.2.(ii)] Closed-vent systems (unsafe-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency, as applicable. Maintain a written plan that requires inspection of the equipment as frequently as practical during safe-to-inspect times, at least once annually. Comply with this requirement instead of the requirements in 40 CFR 63.983(b)(1). Subpart SS. [40 CFR 63.983(b)(2)(ii)]
- 169 [40 CFR 63.983.b.3.(i)] Which Months: All Year Statistical Basis: None specified Closed-vent systems (difficult-to-monitor): Determine that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters (7 feet) above a support surface. Comply with this requirement instead of the requirements in 40 CFR 63.983(b)(1), as applicable. Subpart SS. [40 CFR 63.983(b)(3)(i)]
- 170 [40 CFR 63.983.b.3.(ii)] Closed-vent systems (difficult-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency, as applicable. Maintain a written plan that requires inspection of the equipment at least once every 5 years. Comply with this requirement instead of the requirements in 40 CFR 63.983(b)(1). Subpart SS. [40 CFR 63.983(b)(3)(ii)]
- 171 [40 CFR 63.983.b.4.(i)] Which Months: All Year Statistical Basis: None specified Closed-vent systems (containing bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes, as applicable. Subpart SS. [40 CFR 63.983(b)(4)(i)]
- 172 [40 CFR 63.983.b.4.(ii)] Closed-vent systems (containing bypass lines): Equipment/operational data monitored by visual inspection/determination monthly, as applicable. Visually inspect the seal or closure mechanism at least once every month to verify that the valve is maintained in the non-diverting position, and the vent stream is not diverted through the bypass line. Subpart SS. [40 CFR 63.983(b)(4)(ii)]
- 173 [40 CFR 63.983.d.1] Which Months: All Year Statistical Basis: None specified Closed-vent systems (hard piping): Eliminate leak, or monitor according to the procedures in 40 CFR 63.983(c), if there are visible, audible, or olfactory indications of leaks at the time of the annual visual inspections required by 40 CFR 63.983(b)(1)(Y)(B). Subpart SS. [40 CFR 63.983(d)(1)]
- 174 [40 CFR 63.983.d.2] Closed-vent systems: Repair leaks as soon as practical, except as provided in 40 CFR 63.983(d)(3). Make a first attempt at repair no later than 5 days after the leak is detected, and complete repairs no later than 15 days after the leak is detected or at the beginning of the next introduction of vapors to the system, whichever is later. Subpart SS. [40 CFR 63.983(d)(2)]
- 175 [40 CFR 63.983.d.3] Closed-vent systems (delay of repair allowed): Repair equipment as soon as practical, but not later than the end of the next closed-vent system shutdown. Subpart SS. [40 CFR 63.983(d)(3)]
- 176 [40 CFR 63.987.a] Meet the performance requirements in 40 CFR 63.11(b). Subpart SS. [40 CFR 63.987(a)]
- 177 [40 CFR 63.987.b] Conduct an initial flare compliance assessment that meets the requirements specified in 40 CFR 63.987(b)(3)(i) through (b)(3)(iv). Subpart SS UCC completed the flare compliance determination required by MON on August 16, 2008. [40 CFR 63.987(b)]
- 178 [40 CFR 63.987.c] Presence of a flame monitored by the regulation's specified method(s) continuously. Use a device (including but not limited to a thermocouple, ultra-violet beam sensor, or infrared sensor) capable of continuously detecting that at least one pilot flame or the flare flame is present. Subpart SS. [40 CFR 63.987(c)]
- Which Months: All Year Statistical Basis: None specified

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AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
 Permit Number: 1912-V1
 Air - Title V Regular Permit Renewal

EQT 0842 131A - SPU Process Flare (ID-1901-B)

- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.998(a) through (d), as applicable. Subpart SS.
- Notify DEQ of the intention to conduct a performance test or flare compliance assessment: Due at least 30 days before such a compliance demonstration is scheduled to allow DEQ the opportunity to have an observer present. Notify DEQ as soon as possible of any delay in the original demonstration date, if after 30 days notice for such an initially scheduled compliance demonstration, there is a delay (due to operational problems, etc.) in conducting the scheduled compliance demonstration. Provide at least 7 days prior notice of the rescheduled date of the compliance demonstration, or arrange a rescheduled date with DEQ by mutual agreement. Subpart SS
- UCC notified DEQ of the intention to conduct the flare compliance assessment required by MON on June 13, 2008. [40 CFR 63.999(a)(1)(i)]
- Submit performance test and flare compliance assessment reports, if not submitted as part of a Notification of Compliance Status report, to DEQ within 60 days of completing the test or determination, unless specified differently. Include the information specified in 40 CFR 63.999(a)(2)(i) through (a)(2)(iii). Subpart SS
- UCC submitted the flare compliance determination as part of the NOCS required by MON on October 7, 2008. [40 CFR 63.999(a)(1)(ii)]
- Submit Notification of Compliance Status: Due as specified in the referencing subpart. Include the information specified in 40 CFR 63.999(b)(1) through (b)(5), as applicable. Subpart SS. [40 CFR 63.999(b)]
- Submit Periodic Report: Due as specified in the referencing subpart. Include the information specified in 40 CFR 63.999(c)(1) through (c)(7).
- Subpart SS. [40 CFR 63.999(c)]
- Submit notification: Due to SPOC as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
- Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
- Which Months: All Year Statistical Basis: None specified
- Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- Flare complies with 40 CFR 63.11(b).
- Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- Compliance with NESHAP 40 CFR 63 Subpart A (40 CFR 63.11(b)) has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

EQT 0843 661 - Butadiene Field Storage Tank (ID 2541)

- Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G
- Tank maintains a close vent systems and control device - emissions routed to a flare. [40 CFR 63.119(a)(1)]

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
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 Air - Title V Regular Permit Renewal

EQT 0843 661 - Butadiene Field Storage Tank (ID 2541)

- 190 [40 CFR 63.122.a.3] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.152(c). Subpart G
- 191 [40 CFR 63.122.a.4] UCC submitted the NOCS as required by HON on October 4, 2001. [40 CFR 63.122(a)(3)]
- 192 [40 CFR 63.122.a.5] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(f), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 193 [40 CFR 63.123] Submit, as applicable, other reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(h). Subpart G. [40 CFR 63.122(a)(5)]
- 194 [LAC 33.III.2103.B] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
- 195 [LAC 33.III.2103.E.2] Equip with a submerged fill pipe.
- VOC, Total \geq 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- Which Months: All Year Statistical Basis: None specified
- 196 [LAC 33.III.2103.E] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2103.H.3-a-e.
- 197 [LAC 33.III.2103.H.3] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33.III.2103.I.1 - 7, as applicable.
- 198 [LAC 33.III.2103.I] Include emissions of all toxic air pollutants listed in LAC 33.III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33.III.5105.B.
- 199 [LAC 33.III.5107.A.2] Compliance with NESHAP 40 CFR 63 Subpart G Group 1 requirements and routing emissions to SPU Process Flare has been determined to be
- 200 [LAC 33.III.5109.A.1] compliance with MACT in accordance with LAC 33.III.5109.A.2.

EQT 0844 662 - VME Field Storage Tank (ID 2542)

- 201 [LAC 33.III.2103.B] Equip with a submerged fill pipe.
- VOC, Total \geq 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- Which Months: All Year Statistical Basis: None specified
- 202 [LAC 33.III.2103.E.2] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2103.H.3-a-e.
- 203 [LAC 33.III.2103.E]
- 204 [LAC 33.III.2103.H.3]

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AI ID: 2083 - Union Carbide Corp - St Charles Operations
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EQT 0844 662 - VME Field Storage Tank (ID 2542)

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2|03.1.1 - 7, as applicable.

Include emissions of all toxic air pollutants listed in LAC 33:III.5|07.B. under LAC 33:III.5|05.B.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be combustion of emissions in the flare, EIQ 131A.

EQT 084B 830 - Thermal Oxidizer/Scrubber ER V-1148

Organic HAP $\geq 98\%$ reduction by weight, or ≤ 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3 percent oxygen. Subpart G. [40 CFR 63.113(a)(2)]

Which Months: All Year Statistical Basis: None specified Temperature monitored by temperature monitoring device continuously. Equip the temperature monitoring device with a continuous recorder and install in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs. Subpart G. [40 CFR 63.114(a)(1)]

Which Months: All Year Statistical Basis: None specified Conduct a performance test using the procedures in 40 CFR 63.116(c)(1) through (c)(4). Subpart G. [40 CFR 63.116(c)]

Inlet emissions: Organic HAP $\geq 95\%$ reduction, except as provided in 40 CFR 63.119(e)(2). If a flare is used, it shall meet the specifications described in the general control device requirements of 40 CFR 63.111(b). Subpart G. [40 CFR 63.119(e)(1)]

Which Months: All Year Statistical Basis: None specified Do not exceed 240 hours per year of periods of planned routine maintenance of the control device, during which the control device does not meet the specifications of 40 CFR 63.119(e)(1) or (e)(2). Subpart G (Applicable to tank vents only)

[40 CFR 63.119(e)(3)] Prepare a design evaluation, which includes the information specified in 40 CFR 63.120(d)(1)(i), or submit the results of a performance test as described in 40 CFR 63.120(d)(1)(ii). Subpart G. [40 CFR 63.120(d)(1)]

Submit, as part of the Notification of Compliance Status required by 40 CFR 63.151(b): A monitoring plan containing the information specified in 40 CFR 63.120(d)(2)(i) and in either (d)(2)(ii) or (d)(2)(iii); and the information specified in 40 CFR 63.120(d)(3)(i) and, if applicable, (d)(3)(ii). Subpart G. [40 CFR 63.120(d)(2)] Monitor the parameters specified in the Notification of Compliance Status required in 40 CFR 63.151(b) or in the operating permit and operate and maintain the control device such that the monitored parameters remain within the ranges specified in the Notification of Compliance Status. Subpart G. [40 CFR 63.120(d)(5)]

Vapor collection system or closed vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(1)(i)] Which Months: All Year Statistical Basis: None specified

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EQT 0848 830 - Thermal Oxidizer/Scrubber ER V-1148

- 217 [40 CFR 63.148.b.1.(ii)] Vapor collection system or closed vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually.
 Subpart G. [40 CFR 63.148(b)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Vapor collection system or closed vent system (ductwork): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(2)(i)]
- Which Months: All Year Statistical Basis: None specified
- Vapor collection system or closed vent system (ductwork): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(2)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Vapor collection system or closed vent system (ductwork): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(2)(iii)]
- Which Months: All Year Statistical Basis: None specified
- Fixed roof, cover, or enclosure: Presence of a leak monitored by visual, audible, and/or olfactory once initially and once every six months as specified in 40 CFR 63.133 through 63.137. Subpart G. [40 CFR 63.148(b)(3)]
- Which Months: All Year Statistical Basis: None specified
- Repair leaks (as indicated by an instrument reading greater than 500 ppm above background or by visual inspections) as soon as practicable, except as provided in 40 CFR 63.148(e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.148(d)(3). Subpart G. [40 CFR 63.148(d)]
- Vapor collection system or closed vent system (bypass lines): Flow monitored by flow indicator once every 1.5 minutes. Install the flow indicator at the entrance to any bypass line. Subpart G. [40 CFR 63.148(f)(1)]
- Which Months: All Year Statistical Basis: None specified
- Vapor collection system or closed vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.148(f)(2)]
- Which Months: All Year Statistical Basis: None specified
- Vapor collection system or closed vent system (bypass lines): Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. Subpart G. [40 CFR 63.148(f)(2)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.148(j)(1) through (j)(6). Subpart G. [40 CFR 63.148(i)]
- Submit the information specified in 40 CFR 63.148(j)(1) through (j)(3) with the reports required by 40 CFR 63.182(b) of subpart H or 40 CFR 63.152(c). Subpart G. [40 CFR 63.148(j)]
- Determine the applicable requirements from table 7 to this subpart and 40 CFR 63.2485 for emissions from waste management units that are used to manage and treat Group 1 wastewater streams and residuals from Group 1 wastewater streams, including applicable monitoring, recordkeeping, and reporting. [40 CFR 63.2450(c)(2)(iv)]
- Meet the requirements of 40 CFR 63.982(c) and the requirements referenced therein, except when complying with 40 CFR 63.2485. Subpart FFFF. [40 CFR 63.2450(e)(1)]

SPECIFIC REQUIREMENTS**AI ID: 2083 - Union Carbide Corp - St. Charles Operations****Activity Number: PER20070032****Permit Number: 1912-V1****Air - Title V Regular Permit Renewal****EQT 0848 830 - Thermal Oxidizer/Scrubber ER V-1148**

- 230 [40 CFR 63.2470.d] Ensure that periods of planned routine maintenance of each control device, during which the control device does not meet the emission limit specified in 40 CFR 63 Subpart FFFF Table 4, do not exceed 240 hours per year (hr/yr). Subpart FFFF
- (Applicable to tank vents only). [40 CFR 63.2470(d)]
- Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
- Closed-vent systems: Ensure that each closed-vent system is designed and operated to collect the regulated material vapors from the emission point, and to route the collected vapors to a control device. Subpart SS. [40 CFR 63.983(a)(1)]
- Closed-vent systems: Operate at all times when emissions are vented to, or collected by, them. Subpart SS. [40 CFR 63.983(a)(2)]
- Closed-vent systems (containing bypass lines): Flow monitored by flow indicator at the regulation's specified frequency. Ensure that the flow indicator is capable of taking periodic readings. Install at the entrance to any bypass line. Subpart SS. [40 CFR 63.983(a)(3)(i)]
- Which Months: All Year Statistical Basis: None specified
- Closed-vent systems (containing bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart SS. [40 CFR 63.983(a)(3)(ii)]
- Closed-vent systems (hard-piping): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially. If an instrument reading of 500 ppmv above background is measured, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.983(d)(2). Subpart SS. [40 CFR 63.983(b)(1)(i)(A)]
- Which Months: All Year Statistical Basis: None specified
- Closed-vent systems (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart SS. [40 CFR 63.983(b)(1)(i)(B)]
- Which Months: All Year Statistical Basis: None specified
- Closed-vent systems (ductwork): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually. If an instrument reading of 500 ppmv above background is measured, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.983(d)(2).
- Subpart SS. [40 CFR 63.983(b)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Closed-vent systems (unsafe-to-monitor): Determine that the equipment is unsafe-to-inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with 40 CFR 63.983(b)(1). Comply with this requirement instead of the requirements in 40 CFR 63.983(b)(1). Subpart SS. [40 CFR 63.983(b)(2)(i)]
- Closed-vent systems (unsafe-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment as frequently as practical during safe-to-inspect times, at least once annually. Comply with this requirement instead of the requirements in 40 CFR 63.983(b)(1). Subpart SS. [40 CFR 63.983(b)(2)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Closed-vent systems (difficult-to-monitor): Determine that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters (7 feet) above a support surface. Comply with this requirement instead of the requirements in 40 CFR 63.983(b)(1). Subpart SS. [40 CFR 63.983(b)(3)(i)]

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243 [40 CFR 63.983.b.3.(ii)]

Closed-vent systems (difficult-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 2] at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment at least once every 5 years. Comply with this requirement instead of the requirements in 40 CFR 63.983(b)(1). Subpart SS. [40 CFR 63.983(b)(3)(ii)]

244 [40 CFR 63.983.b.4.(i)]

Which Months: All Year Statistical Basis: None specified
 Closed-vent systems (containing bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Subpart SS. [40 CFR 63.983(b)(4)(i)]

245 [40 CFR 63.983.b.4.(ii)]

Closed-vent systems (containing bypass lines): Equipment/operational data monitored by visual inspection/determination monthly. Visually inspect the seal or closure mechanism at least once every month to verify that the valve is maintained in the non-diverting position, and the vent stream is not diverted through the bypass line. Subpart SS. [40 CFR 63.983(b)(4)(ii)]

246 [40 CFR 63.983.d.1]

Which Months: All Year Statistical Basis: None specified
 Closed-vent systems (hard piping): Eliminate leak, or monitor according to the procedures in 40 CFR 63.983(c), if there are visible, audible, or olfactory indications of leaks at the time of the annual visual inspections required by 40 CFR 63.983(b)(1)(B). Subpart SS. [40 CFR 63.983(d)(1)]

247 [40 CFR 63.983.d.2]

Closed-vent systems: Repair leaks as soon as practical, except as provided in 40 CFR 63.983(d)(3). Make a first attempt at repair no later than 5 days after the leak is detected, and complete repairs no later than 15 days after the leak is detected or at the beginning of the next introduction of vapors to the system, whichever is later. Subpart SS. [40 CFR 63.983(d)(2)]

248 [40 CFR 63.983.d.3]

Closed-vent systems (delay of repair allowed): Repair equipment as soon as practical, but not later than the end of the next closed-vent system shutdown. Subpart SS. [40 CFR 63.983(d)(3)]

249 [40 CFR 63.985.a]

Operate and maintain so that the monitored parameters defined as required in 40 CFR 63.985(c) remain within the ranges specified in the Notification of Compliance Status whenever emissions of regulated material are routed to the control device except during periods of start-up, shutdown, and malfunction as specified in the referencing subpart. Subpart SS. [40 CFR 63.985(a)]

250 [40 CFR 63.985.b.1]

Prepare and submit with the Notification of Compliance Status, as specified in 40 CFR 63.999(b)(2), either a design evaluation that includes the information specified in 40 CFR 63.985(b)(1)(i), or the results of the performance test as described in 40 CFR 63.985(b)(1)(ii). Subpart SS. [40 CFR 63.985(b)(1)]

251 [40 CFR 63.985.c.2]

Monitor the parameters specified in the Notification of Compliance Status or in the operating permit application or amendment. Subpart SS. [40 CFR 63.985(c)(2)]

252 [40 CFR 63.998]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.998(a) through (d), as applicable. Subpart SS.

253 [40 CFR 63.999.a.1.(i)]

Notify DEQ of the intention to conduct a performance test or flare compliance assessment: Due at least 30 days before such a compliance demonstration is scheduled to allow DEQ the opportunity to have an observer present. Notify DEQ as soon as possible of any delay in the original demonstration date, if after 30 days notice for such an initially scheduled compliance demonstration, there is a delay (due to operational problems, etc.) in conducting the scheduled compliance demonstration. Provide at least 7 days prior notice of the rescheduled date of the compliance demonstration, or arrange a rescheduled date with DEQ by mutual agreement. Subpart SS. [40 CFR 63.999(a)(1)(i)]
 Submit performance test and flare compliance assessment reports, if not submitted as part of a Notification of Compliance Status report, to DEQ within 60 days of completing the test or determination, unless specified differently. Include the information specified in 40 CFR 63.999(a)(2)(i) through (a)(2)(iii). Subpart SS. [40 CFR 63.999(a)(1)(ii)]

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EQT 0848 830 - Thermal Oxidizer/Scrubber ER V-1148

255 [40 CFR 63.999.a.1.(iii)]

Submit application for a waiver of an initial performance test or flare compliance assessment, as allowed by 40 CFR 63.997(b)(2), no later than 90 days before the performance test or compliance assessment is required. Include information justifying the request for a waiver, such as the technical or economic infeasibility, or the impracticality, of the source performing the test. Subpart SS. [40 CFR 63.999(a)(1)(iii)]
 Submit application to substitute a prior performance test or compliance assessment for an initial performance test or compliance assessment, as allowed by 40 CFR 63.997(b)(1), no later than 90 days before the performance test or compliance test is required. Include information demonstrating that the prior performance test or compliance assessment was conducted using the same methods specified in 40 CFR 63.997(e) or 40 CFR 63.987(b)(3), as applicable. Also include information demonstrating that no process changes have been made since the test, or that the results of the performance test or compliance assessment reliably demonstrate compliance despite process changes. Subpart SS. [40 CFR 63.999(a)(1)(iv)]

257 [40 CFR 63.999.b]

Submit Notification of Compliance Status: Due as specified in the referencing subpart. Include the information specified in 40 CFR 63.999(b)(1) through (b)(5), as applicable. Subpart SS. [40 CFR 63.999(b)]

258 [40 CFR 63.999.c]

Submit Periodic Report: Due as specified in the referencing subpart. Include the information specified in 40 CFR 63.999(c)(1) through (c)(7). Subpart SS. [40 CFR 63.999(c)]

259 [40 CFR 63.999.d.1]

Submit request for approval to use alternatives to continuous operating parameter monitoring and recordkeeping provisions, as provided for in 40 CFR 63.996(d)(1), as specified in a referencing subpart. Include the information specified in 40 CFR 63.996(d)(1)(i) and (d)(1)(ii). Subpart SS. [40 CFR 63.999(d)(1)]

260 [40 CFR 63.999.d.2]

Submit request for approval to monitor a different parameter than those established in 40 CFR 63.996(c)(6) or to set unique monitoring parameters, as provided for in 40 CFR 63.996(d)(2), as specified as specified in a referencing subpart. Include the information specified in 40 CFR 63.999(d)(2)(i) through (d)(2)(iii). Subpart SS. [40 CFR 63.999(d)(2)]

261 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

262 [LAC 33:III.1305]

Which Months: All Year Statistical Basis: None specified Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

263 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

264 [LAC 33:III.1513.C]

Which Months: All Year Statistical Basis: Six-minute average Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

265 [LAC 33:III.501.C.6]

Continuous emission monitors (CEM) which meet the requirements of 40 CFR 60, Appendix B, Performance Specifications 2, 3, and 4 shall be installed, maintained, and calibrated to provide a continuous record of CO, SO₂, and O₂ concentration in the thermal oxidizer/scrubber stack (Emission Point No. 830. Permittee may develop a CO/ O₂ operating curve (during compliance testing) in place of a continuous CO analyzer for CO control. Data shall be retained either in computer memory or hard copy on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

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EQT 0848 830 - Thermal Oxidizer/Scrubber ER V-1148

266 [LAC 33:III.501.C.6]

Permittee shall perform a stack test on the thermal oxidizer (Emission Point No. 830) for CO, SO₂, SO₂ removal efficiency and THC. Removal efficiency of the organic constituents shall not be less than 99.9%. Test methods will be those found in 40 CFR 60, Appendix A, as follows:

- A.) Carbon Monoxide by Method 10-determination of Carbon Monoxide Emissions from Stationary Sources;
- B.) Sulfur Dioxide by Method 19-Determination of sulfur Dioxide removal efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen oxides emission Rates; and
- C.) Total Hydrocarbons by Method 18-measurement of Gaseous organic compound Emissions by Gas Chromatography.

Permittee shall continuously monitor the SO₂ concentration in the thermal oxidizer stack, Emission Point No. 830, to confirm compliance with the emission limits of the permit. Maximum instantaneous SO₂ emissions shall not exceed 17.8 pounds in any hourly period. Hourly SO₂ emissions from the thermal oxidizer shall be recorded each day and month. A monitoring program, acceptable to the LDEQ Engineering Section, that determines sulfur feed to the incinerator based on vent flow rate and sulfur concentration and also estimates hourly SO₂ emissions based on 95% scrubber efficiency may be substituted for a SO₂ CEM. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

Scrubbing Agent (Water): Flow rate >= 10,000lb/hr on hourly average period to maintain 95% efficiency.

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Compliance with NESHAP 40 CFR 63 Subparts G and FFFF has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

EQT 0849 835 - Line 1 Heavy Residue Tank (ID 3434)

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be venting to the flare, Emission Point 131A.

EQT 0850 836 - Line 1 Inhibitor Tank (ID 3430T)

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Tank emits TAPs at trace levels only, no controls required.

EQT 0851 837 - Line 1 Inhibitor Storage Tank (ID 3430B)

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

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EQT 0851 837 - Line 1 Inhibitor Storage Tank (ID 3430B)

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Tank emits TAPs at trace levels only, no controls required.

EQT 0852 838A - Line 1 Make Tank (ID 3435)

- 275 [LAC 33:III.5109.A.1] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to SPU Process Flare. MACT is applicable when tank is storing MDP only.
 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded.

EQT 0853 838B - Line 1 Make Tank (ID 3437)

- 276 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to SPU Process Flare. MACT is applicable when tank is storing MDP only.
 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded.

EQT 0854 838C - Line 1 Re-Run Tank (ID 3439)

- 279 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to SPU Process Flare. MACT is applicable when tank is storing MDP only.
 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded.

EQT 0855 839 - Line 1 Light Residue Tank (ID 3438)

- 280 [LAC 33:III.5109.A.1] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
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EQT 0855 839 - Line 1 Light Residue Tank (ID 3438)

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be venting to the flare, Emission Point 131A.

EQT 0856 840 - Cyclohexane Storage Tank (ID 3436)

- 287 [LAC 33:III.5109.A.] Equip tank, reservoir or other container with a submerged fill pipe or a vapor loss control system, as defined in LAC33:III.2103.E.
 Tank is equipped with submerged fill pipe and vapor loss control system.
 VOC, Total $\geq 90\%$ control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
 Which Months: All Year Statistical Basis: None specified
- The vapor loss control system, shall consist of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 ~ 7, as applicable.
- Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to flare, 131A-SPU Process Flare, (EQT842).
- 290 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 291 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 ~ 7, as applicable.
- 292 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 293 [LAC 33:III.5109.A.] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to flare, 131A-SPU Process Flare, (EQT842).

EQT 0857 841A - Acrolein Storage Tank (ID 3411)

- For this tank, 40 CFR 60 Subpart Kb is applicable, but the permittee has elected to comply only with the provisions of 40 CFR 63 Subpart G per 40 CFR 63.110(b). [40 CFR 60.110b(a)]
- Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G HAP Emissions are reduced by 95% or greater as per 40 CFR 63.119(e). Emissions controlled by 830-Thermal Oxidizer/Scrubber (EQT0848), and 131A-SPU Process Flare (EQT0842) as back-up. [40 CFR 63.119(a)(1)]
- Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- Submit, as applicable, other reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(h). Subpart G. [40 CFR 63.122(a)(5)]

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EQT 0857 841A - Acrolein Storage Tank (ID 3411)

- 298 [40 CFR 63.123]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
 Equip tank, reservoir or other container with a submerged fill pipe or a vapor loss control system, as defined in LAC 33:III.2103.E.
- 299 [LAC 33:III.2103.A]
 The tank is equipped with submerged fill pipe and a vapor loss control system.
- 300 [LAC 33:III.2103.E.2]
 VOC, Total $\geq 90\%$ control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- 301 [LAC 33:III.2103.E]
 Which Months: All Year Statistical Basis: None specified
 The vapor loss control system consists of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
 Vent stream routed to the Thermal Oxidizer, (EIQ 830), or Flare, (EIQ 131A).
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.1.1 - 7, as applicable.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Compliance with NESHAP 40 CFR 63 Subpart G has been determined to be compliant with MACT in accordance with LAC 33:III.5109.A.2 Emissions controlled by 830-Thermal Oxidizer/Scrubber (EQT0848), and 131A-SPU Process Flare (EQT842) as back-up.
 Class I & II TAPs routed to control device are: Acetaldehyde, Acrolein, Benzene, Propionaldehyde.

EQT 0858 841B - Acrolein Storage Tank (ID 3412)

- 306 [40 CFR 60.110b.a]
 Except as provided in paragraph (b) of this section, the affected facility to which this subpart applies is each storage vessel with a capacity greater than or equal to 75 cubic meters (m^3) that is used to store volatile organic liquids (VO_L) for which construction, reconstruction, or modification is commenced after July 23, 1984. Subpart Kb
- For this tank, 40 CFR 60 Subpart Kb is applicable, but the permittee will comply with NESHAP Subpart FFFF in lieu of NSPS Subpart Kb, as per 40 CFR 63.2535(c). [40 CFR 60.110b(a)]
 Thermal Oxidizer Option:
 HAP $\geq 95\%$ reduction by weight, or TOC or organic HAP ≤ 20 ppmv and hydrogen halides and halogens ≤ 20 ppmv, by venting emissions through a closed-vent system to any combination of control devices (excluding a flare). Subpart FFFF.
 Emissions normally routed to the 830-Thermal Oxidizer/Scrubber control device. [40 CFR 63.2470(a)]
 Flare Option:
 Reduce total organic HAP emissions by venting emissions through a closed-vent system to a flare. Subpart FFFF.
 Flare is back-up control. [40 CFR 63.2470(a)]

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EQT 0858 841B - Acrolein Storage Tank (ID 3412)

- 309 [40 CFR 63.2520.a]
 310 [40 CFR 63.2525]
- 311 [LAC 33:III.2103.A]
 312 [LAC 33:III.2103.E.2]
- 313 [LAC 33:III.2103.E]
- 314 [LAC 33:III.2103.H.3]
 315 [LAC 33:III.2103.I]
- 316 [LAC 33:III.5107.A.2]
 317 [LAC 33:III.5109.A.1]
- Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
 Equip tank, reservoir or other container with a submerged fill pipe or a vapor loss control system, as defined in LAC33:III.2103.E.
 Tank is equipped with submerged fill pipe and vapor loss control system.
 VOC, Total \geq 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
 Which Months: All Year Statistical Basis: None specified
 The vapor loss control system consists of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
 Vent stream routed to the Thermal Oxidizer, (EIQ 830), or Flare, (EIQ 131A).
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
 Emits Class I and/or Class II TAP less than the MER (facility wide). Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Compliance with NESHAP 40 CFR 63 Subpart FFFF has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2
 Emissions controlled by 830-Thermal Oxidizer/Scrubber (EQT0848), and 131A-SPU Process Flare (EQT342) as back-up.
 Class I, II, & III TAPs routed to control device are: Acetaldehyde, Acrolein, Benzene, Propionaldehyde.

EQT 0859 841C - Acrolein Storage Tank (ID 341C)

- 318 [40 CFR 60.110b.a]
- 319 [40 CFR 63.2470.a]
- Except as provided in paragraph (b) of this section, the affected facility to which this subpart applies is each storage vessel with a capacity greater than or equal to 75 cubic meters (m³) that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification is commenced after July 23, 1984. Subpart Kb
- For this tank, 40 CFR 60 Subpart Kb is applicable, but the permittee will comply with NESHAP Subpart FFFF in lieu of NSPS Subpart Kb, as per 40 CFR 63.2535(c). [40 CFR 60.110b(a)]
 Thermal Oxidizer Option:
 HAP \geq 95 % reduction by weight, or TOC or organic HAP \leq 20 ppmv and hydrogen halides and halogens \leq 20 ppmv, by venting emissions through a closed-vent system to any combination of control devices (excluding a flare). Subpart FFFF.
 Emissions normally routed to the 830-Thermal Oxidizer/Scrubber control device. [40 CFR 63.2470(a)]

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EQT 0859 841C - Acrolein Storage Tank (ID 341C)

- 320 [40 CFR 63.2470.a] Flare Option:
 Reduce total organic HAP emissions by venting emissions through a closed-vent system to a flare. Subpart FFFF.
 Flare is back-up control. [40 CFR 63.2470(a)]
- 321 [40 CFR 63.2520.a] Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
- 322 [40 CFR 63.2525] Equip tank, reservoir or other container with a submerged fill pipe or a vapor loss control system, as defined in LAC33:III.2103.E.
- 323 [LAC 33:III.2103.A] Tank is equipped with submerged fill pipe and vapor loss control system.
- 324 [LAC 33:III.2103.E.2] VOC, Total >= 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- Which Months: All Year Statistical Basis: None specified
 The vapor loss control system consists of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- Vent stream routed to the Thermal Oxidizer, (EIQ 830), or Flare, (EIQ 131A).
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3-a-e.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
 Emits Class I and/or Class II TAP-less than the MIER (facility wide). Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Compliance with NESHAP 40 CFR 63 Subpart FFFF has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2
 Emissions controlled by 830-Thermal Oxidizer/Scrubber (EQT0848), and 131A-SPU Process Flare (EQT1842) as back-up.
 Class I & II TAPs routed to control device are: Acetaldehyde, Acrolein, Benzene, Propionaldehyde.

EQT 0860 845A - Train 1 East Day Tank (ID-3423)

- 326 [LAC 33:III.2103.H.3] Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
- 327 [LAC 33:III.2103.I] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 328 [LAC 33:III.5107.A.2] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- 329 [LAC 33:III.5109.A.1] MACT is determined to be routing emissions to the Thermal Oxidizer or SPU Process Flare.

EQT 0861 845B - Train 1 West Day Tank (ID 3424)

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EQT 0861 845B - Train 1 West Day Tank (ID 3424)

- 334 [40 CFR 63.2520.a]
 - 335 [40 CFR 63.2525]
 - 336 [LAC 33.III.5107.A.2]
 - 337 [LAC 33.III.5109.A.1]
- Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
 Include emissions of all toxic air pollutants listed in LAC 33.III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33.III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be routing emissions to the Thermal Oxidizer or SPU Process Flare.

EQT 0863 847 - Wastewater Tank-Clean-up Tank (CUT) (ID 1136)

- Requirements for Group 2 wastewater streams. For wastewater streams that are Group 2 for table 9 compounds, comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 63.147(b)(8). [40 CFR 63.132(a)(3)]
 For Group 2 wastewater streams, the owner or operator shall include the information specified in paragraphs (b)(1)(i) through (iv) of this section in the Notification of Compliance Status Report. This information may be submitted in any form. Table 15 of this subpart is an example. Subpart G. [40 CFR 63.146(b)(1)]
 For Group 2 wastewater stream, the owner or operator shall keep in a readily accessible location the records specified in paragraphs (b)(8)(i) through (iv) of this section.
- (i) Process unit identification and description of the process unit.
 - (ii) Stream identification code.
 - (iii) For existing sources, concentration of table 9 compound(s) in parts per million, by weight. For new sources, concentration of table 8 and/or table 9 compound(s) in parts per million, by weight. Include documentation of the methodology used to determine concentration.
 - (iv) Flow rate in liter per minute.
- [40 CFR 63.147(b)(8)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
 Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]
 Comply with the requirements in 40 CFR 63.132 through 63.148 and the requirements referenced therein, except as specified in 40 CFR 63.2485. Subpart FFFF. [40 CFR 63.2485(a)]
 Determine the annual average concentration and annual average flowrate for wastewater streams for each MCPU. Subpart FFFF. [40 CFR 63.2485(j)]
- 341 [40 CFR 63.147]
 342 [40 CFR 63.149.a]
 343 [40 CFR 63.2485.a]
 344 [40 CFR 63.2485.j]

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EQT 0863 847 - Wastewater Tank-Clean-up Tank (CUT) (ID 1136)

- 345 [40 CFR 63.2520.a] Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
 Equip tank, reservoir or other container with a submerged fill pipe or a vapor loss control system, as defined in LAC33:III.2103.E.
 The tank is equipped with submerged fill pipe and a vapor loss control system.
 VOC, Total >= 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
 Which Months: All Year Statistical Basis: None specified
 The vapor loss control system consists of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

Vent stream routed to the Thermal Oxidizer, (EIQ 830), or Flare, (EIQ 131A).

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing vent stream to the Flare, EIQ 131A.

EQT 0864 851 - Line 1 Recycle Tank (ID C-101)

- 354 [LAC 33:III.2103.A] Equip tank, reservoir or other container with a submerged fill pipe or a vapor loss control system, as defined in LAC33:III.2103.E.
 The tank is equipped with submerged fill pipe and a vapor loss control system.
 VOC, Total >= 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
 Which Months: All Year Statistical Basis: None specified
 The vapor loss control system consists of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

Vent stream routed to the Thermal Oxidizer, (EIQ 830), or Flare, (EIQ 131A).

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

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EQT 0864 851 - Line 1 Recycle Tank (ID C-101)

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing vent stream to the Flare, EIQ131A.

EQT 0865 852 - Line 1 Feed Pot (ID C-102)

Equip tank, reservoir or other container with a submerged fill pipe or a vapor loss control system, as defined in LAC33:III.2103.E.-

The tank is equipped with submerged fill pipe and a vapor loss control system.
 VOC, Total $\geq 95\%$ control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.

Tank equipped with a vapor loss control system to reduce emissions by 95%. Vent stream routed to the Flare, EIQ 131A.

Which Months: All Year Statistical Basis: None specified
 The vapor loss control system consists of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

Vent stream routed to the Thermal Oxidizer, (EIQ 830), or Flare, (EIQ 131A).
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.1.1 - 7, as applicable.

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing vent stream to the Flare, EIQ131A.

EQT 0866 859 - Tank Car Rack

Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.

Group 2 rack.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be vapor balancing back to the source tank.

EQT 0867 861 - Tank Truck Rack

Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]

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EQT 0867 861 - Tank Truck Rack

- 373 [40 CFR 63.2525] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
 Group 2 rack.
- 374 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 375 [LAC 33:III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be vapor balancing back to the source tank.

EQT 0868 862 - MMP Unit Storage Tank (ID-3420)

- 376 [40 CFR 63.2520.a] Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
- 377 [40 CFR 63.2525] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 378 [LAC 33:III.5107.A.2] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be routing emissions to the Thermal Oxidizer or SPU Process Flare.

EQT 0869 866 - Acrolein Buffer Tank

- 380 [40 CFR 63.2520.a] Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
- 381 [40 CFR 63.2525] Emits hydroquinone, Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0870 871 - Line 4 Feed Pot (ID C-702)

- 383 [LAC 33:III.2103.A] Equip tank, reservoir or other container with a submerged fill pipe or a vapor loss control system, as defined in LAC33:III.2103.E.
 The tank is equipped with submerged fill pipe and a vapor loss control system.
- 384 [LAC 33:III.2103.E.1] VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
 Tank is equipped with a vapor loss control system, and emissions are routed to a flare, EIQ 131A.
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
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EQT 0870 871 - Line 4 Feed Pot (ID C-702)

The vapor loss control system consists of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

Vent stream routed to the Thermal Oxidizer, (EIQ 830), or Flare, (EIQ 131A).

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information

specified in LAC 33:III.2103.I.1 - 7, as applicable.

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be routing emissions to the flare, EIQ 131A.

EQT 0871 874 - Line 4 Make Tank (ID-3935)

Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be routing emissions to the flare, EIQ 131A.

EQT 0872 875 - Line 4 Make Tank (ID-3937)

Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be routing emissions to the flare, EIQ 131A.

EQT 0873 876 - Line 4 Re-Run Tank (ID-3939)

Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
 Permit Number: 1912-V1
 Air - Title V Regular Permit Renewal

EQT 0873 876 - Line 4 Re-Run Tank (ID-3939)

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to the flare, EIQ 131A.

EQT 0874 879 - MDP Heavy Residue Tank (ID-3934B)

Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to the flare, EIQ 131A.

EQT 0875 880 - VME Recycle Tank (ID-3938)

Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
 Equip tank, reservoir or other container with a submerged fill pipe or a vapor loss control system, as defined in LAC 33:III.2103.E.
 The tank is equipped with submerged fill pipe and a vapor loss control system.
 VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
 Tank is equipped with a vapor loss control system, and emissions are routed to a flare, EIQ 131A.
 Which Months: All Year Statistical Basis: None specified
 The vapor loss control system consists of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
 Vent stream routed to the Thermal Oxidizer, (EIQ 830), or Flare, (EIQ 131A).
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0873 876 - Line 4 Re-Run Tank (ID-3939)

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to the flare, EIQ 131A.

EQT 0874 879 - MDP Heavy Residue Tank (ID-3934B)

Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to the flare, EIQ 131A.

EQT 0875 880 - VME Recycle Tank (ID-3938)

Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
 Equip tank, reservoir or other container with a submerged fill pipe or a vapor loss control system, as defined in LAC 33:III.2103.E.
 The tank is equipped with submerged fill pipe and a vapor loss control system.
 VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
 Tank is equipped with a vapor loss control system, and emissions are routed to a flare, EIQ 131A.
 Which Months: All Year Statistical Basis: None specified
 The vapor loss control system consists of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
 Vent stream routed to the Thermal Oxidizer, (EIQ 830), or Flare, (EIQ 131A).
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0873 876 - Line 4 Re-Run Tank (ID-3939)

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to the flare, EIQ 131A.

EQT 0874 879 - MDP Heavy Residue Tank (ID-3934B)

Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to the flare, EIQ 131A.

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
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EQT 0875 880 - VME Recycle Tank (ID-3938)

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to the flare, EQ 131A.

EQT 0876 884 - West Catalyst Storage Tank (ID C-1206)

414 [LAC 33:III.5109.A.1] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 After mixing a Class III TAP and acetic acid, there are no longer TAPs in the mixture.

EQT 0877 3000 - MMP Bulk Storage Tank (ID C-3441)

416 [40 CFR 63.2520.a] Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to the Thermal Oxidizer or SPU Process Flare.

EQT 0878 3002A - Train 2 West Day Tank (ID C-2274)

420 [40 CFR 63.2520.a] Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to the Thermal Oxidizer or SPU Process Flare.

EQT 0879 3002B - Train 2 East Day Tank (ID C-2275)

424 [40 CFR 63.2520.a] Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
 Permit Number: 1912-V1
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EQT 0879 3002B - Train 2 East Day Tank (ID C-2275)

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to Thermal Oxidizer or SPU Process Flare.

EQT 0880 3004 - Diesel Generator

- 427 [LAC 33:III.5109.A.1] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: None specified
- 428 [LAC 33:III.1101.B] Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- Which Months: All Year Statistical Basis: None specified
- 429 [LAC 33:III.1313.C] Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- 430 [LAC 33:III.1513.C] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 431 [LAC 33:III.5107.A.2]

EQT 0881 3006 - Line 4 Recycle Tank (ID C-701)

- 432 [LAC 33:III.2103.A] Equip tank, reservoir or other container with a submerged fill pipe or a vapor loss control system, as defined in LAC33:III.2103.E.
 The tank is equipped with submerged fill pipe and a vapor loss control system.
- VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- Tank is equipped with a vapor loss control system, and emissions are routed to a flare, EIQ 131A.
- Which Months: All Year Statistical Basis: None specified
- 433 [LAC 33:III.2103.E.1] The vapor loss control system consists of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- Vent stream routed to the Thermal Oxidizer, (EIQ 830), or Flare, (EIQ 131A).
- Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3-a-e.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.1.1 - 7, as applicable.
- 434 [LAC 33:III.2103.E] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to the flare, EIQ 131A.
- 435 [LAC 33:III.2103.H.3]
 436 [LAC 33:III.2103.I]
 437 [LAC 33:III.5107.A.2]
 438 [LAC 33:III.5109.A.1]

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
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EQT 0883 3008 - East Catalyst Storage Tank (ID C-2206)

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B

After mixing a Class III TAP and acetic acid, there are no longer TAPs in the mixture.

EQT 0884 3009A - Train 1 Acrolein Weigh Tank (Process Vessel)

Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0885 3009B - Train 2 Acrolein Weigh Tank (Process Vessel)

Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0886 3001A - Train 1 Catalyst Day Tank (Process Vessel)

Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0887 3001B - Train 2 Catalyst Day Tank (Process Vessel)

Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0888 3010A - Train 1 MeSH Weigh Tank (Process Vessel)

Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

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EQT 0888 3010A - Train 1 MeSH Weigh Tank (Process Vessel)

454 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0889 3010B - Train 2 MeSH Weigh Tank (Process Vessel)

455 [LAC 33:III.2103.A] Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.
 456 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 457 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0890 3011A - Train 1 Hold Tank (Process Vessel)

458 [LAC 33:III.2103.A] Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.
 459 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 460 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0891 3011B - Train 2 Hold Tank (Process Vessel)

461 [LAC 33:III.2103.A] Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.
 462 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 463 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0892 3012 - Line 1 Hotwell (ID C-136)

464 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

EQT 0894 3013 - Line 4 Hotwell (ID C-736)

465 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

EQT 0895 3014 - Wastewater Tank-Caustic Waste Treatment Tank (C-1011)

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
 Permit Number: 1912-V1
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EQT 0895 3014 - Wastewater Tank-Caustic Waste Treatment Tank (C-1011)

- 466 [40 CFR 63.132.a.3]
- 467 [40 CFR 63.146.b.1]
- 468 [40 CFR 63.146.b.2]
- 469 [40 CFR 63.147.b.8]

Requirements for Group 2 wastewater streams. For wastewater streams that are Group 2 for table 9 compounds, comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 63.147(b)(8). [40 CFR 63.132(a)(3)]
 For Group 2 wastewater streams, the owner or operator shall include the information specified in paragraphs (b)(1)(i) through (iv) of this section in the Notification of Compliance Status Report. This information may be submitted in any form. Table 15 of this subpart is an example. Subpart G. [40 CFR 63.146(b)(1)]

For each new and existing source, the owner or operator shall submit the information specified in table 15 of this subpart for Table 8 and/or Table 9 compounds. Subpart G. [40 CFR 63.146(b)(2)]
 For Group 2 wastewater stream, the owner or operator shall keep in a readily accessible location the records specified in paragraphs (b)(8)(i) through (iv) of this section.

(i) Process unit identification and description of the process unit.

(ii) Stream identification code.

(iii) For existing sources, concentration of table 9 compound(s) in parts per million, by weight. For new sources, concentration of table 8 and/or table 9 compound(s) in parts per million, by weight. Include documentation of the methodology used to determine concentration.

(iv) Flow rate in liter per minute.

- [40 CFR 63.147(b)(8)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
 Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]
 Comply with the requirements in 40 CFR 63.132 through 63.148 and the requirements referenced therein, except as specified in 40 CFR 63.2485. Subpart FFFF. [40 CFR 63.2485(a)]
 Determine the annual average concentration and annual average flowrate for wastewater streams for each MCPU. Subpart FFFF. [40 CFR 63.2485(j)]
 Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.21.03.I.1-7, as applicable.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 470 [40 CFR 63.147]
- 471 [40 CFR 63.149 a]
- 472 [40 CFR 63.2485.a]
- 473 [40 CFR 63.2485.j]
- 474 [40 CFR 63.2520.a]
- 475 [40 CFR 63.2525]
- 476 [LAC 33:III.2103.]
- 477 [LAC 33:III.5107.A.2]

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
 Permit Number: 1912-V1
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EQT 0895 3014 - Wastewater Tank-Caustic Waste Treatment Tank (C-1011)

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing vent stream to the Flare, EIQ 131A.

EQT 0897 3015 - Wastewater Tank-Process Sewer Sump Tank (ID C-1021)

479 [40 CFR 63.132.a.3]

Requirements for Group 2 wastewater streams. For wastewater streams that are Group 2 for table 9 compounds, comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 63.147(b)(8). [40 CFR 63.132(a)(3)]

For Group 2 wastewater streams, the owner or operator shall include the information specified in paragraphs (b)(1)(i) through (iv) of this section in the Notification of Compliance Status Report. This information may be submitted in any form. Table 15 of this subpart is an example. Subpart G. [40 CFR 63.146(b)(1)]

480 [40 CFR 63.146.b.1]

For each new and existing source, the owner or operator shall submit the information specified in table 15 of this subpart for Table 8 and/or Table 9 compounds. Subpart G. [40 CFR 63.146(b)(2)]

481 [40 CFR 63.146.b.2]

For Group 2 wastewater stream, the owner or operator shall keep in a readily accessible location the records specified in paragraphs (b)(8)(i) through (iv) of this section.

(i) Process unit identification and description of the process unit.

(ii) Stream identification code.

(iii) For existing sources, concentration of table 9 compound(s) in parts per million, by weight. For new sources, concentration of table 8 and/or table 9 compound(s) in parts per million, by weight. Include documentation of the methodology used to determine concentration.

(iv) Flow rate in liter per minute.

482 [40 CFR 63.147.b.8]

[40 CFR 63.147(b)(8)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.

483 [40 CFR 63.147]

Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]

484 [40 CFR 63.149.a]

Comply with the requirements in 40 CFR 63.132 through 63.148 and the requirements referenced therein, except as specified in 40 CFR 63.2485. Subpart FFFF. [40 CFR 63.2485(a)]

485 [40 CFR 63.2485.a]

Determine the annual average concentration and annual average flowrate for wastewater streams for each MCPU. Subpart FFFF. [40 CFR 63.2485(j)]

486 [40 CFR 63.2485.j]

Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
 Permit Number: 1912-V1
 Air - Title V Regular Permit Renewal

EQT 0897 3015 - Wastewater Tank-Process Sewer Sump Tank (ID C-1021)

- 489 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be routing vent stream to the Thermal Oxidizer, EIQ 830.

EQT 0898 3017 - Line 1 & 4 Flare Header Knock Out Pot

- 492 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be routing emissions to the flare, EIQ 131A.

EQT 0899 3018 - Line 1 & 4 Incinerator Header Knock Out Pot

- 494 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be routing emissions to the thermal oxidizer, EIQ 830.

EQT 0900 3019 - MON Stripper

- 496 [40 CFR 61.118.d] Operate and maintain a steam stripper that meets the requirements of 40 CFR 63.138(d)(1) through (d)(6). Subpart G. [40 CFR 61.138(d)]
 If design steam stripper option (40 CFR 63.138(d)) is selected to comply with this section, neither a design evaluation nor a performance test is required. [40 CFR 63.138(a)(4)]
 Comply with the monitoring requirements specified in 40 CFR 63 Subpart G Table 12. Subpart G. [40 CFR 63.143(b)]
 If a design steam stripper chooses option (40 CFR 63.138(d)) or RCRA option (40 CFR 63.138(h)) is selected to comply with 40 CFR 63.138, neither a design evaluation nor a performance test is required. [40 CFR 63.145(a)(1)]
 Demonstrate compliance with 40 CFR 63.138 by conducting either a design evaluation or performance test as specified in 40 CFR 63.145(a) through (j). Subpart G As per 40 CFR 63.145(a)(1) Steam Stripper is complying with 40 CFR 63.138(d). [40 CFR 63.145(e)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G. [40 CFR 63.147(a)]

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
Activity Number: PER20070032
Permit Number: 1912-V1
Air - Title V Regular Permit Renewal

EQT 0900 3019 - MON Stripper

502 [40 CFR 63.2485.a]

You must meet each requirement in table 7 to this subpart that applies to your wastewater streams and liquid streams in open systems within an MCPU, except as specified in paragraphs (b) through (o) of this section. Subpart FFFF The Steam Stripper complies with the requirements in 40 CFR 63.132 through 63.148, and requirements referenced therein for the design and performance standards for a steam stripper.

[40 CFR 63.2485(a)]

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

503 [LAC 33:III.5107.A.2]

504 [LAC 33:III.5109.A.1]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be routing emissions to the thermal oxidizer.

EQT 0902 WW-1 - SOCMI Wastewater Streams (Group 1) (Line 1 decanter tails - THBA Production)

505 [40 CFR 63.132.a.1]

Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii). Subpart G This is a group 1 wastewater stream for an existing source. [40 CFR 63.132(a)(1)]

Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. [40 CFR 63.132(c)]

Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G

This is a Group 1 stream for an existing source. [40 CFR 63.132(d)]

Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(f)]

Operate and maintain a steam stripper that meets the requirements of 40 CFR 63.138(d)(1) through (d)(6). Subpart G. [40 CFR 63.138(d)] For each waste management unit, treatment process, or control device used to comply with 40 CFR 63.138 (b)(1), (c)(1), (d), (e), (f), or (g) of this subpart for which the owner or operator seeks to monitor a parameter other than those specified in table 11, table 12, or table 13 of this subpart, the owner or operator shall submit a request for approval to monitor alternative parameters according to the procedures specified in 40 CFR 63.151(f) or (g) of this subpart. Subpart G. [40 CFR 63.146(a)]

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
 Permit Number: 1912-V1
 Air - Title V Regular Permit Renewal

EQT 0902 WW-1 - SOCMI Wastewater Streams (Group 1) (Line 1 decanter tails - THBA Production)

The owner or operator shall submit the information specified in paragraphs (b)(1) through (b)(9) of this section as part of the Notification of Compliance Status required by 40 CFR 63.152(b) of this subpart. Subpart G

UCC submitted the NOCS as required by HON on October 4, 2001 and subsequent update on September 29, 2008

511 [40 CFR 63.146.b]

[40 CFR 63.146(b)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Compliance with NESHAP 40 CFR 63 Subpart G Group 1 requirements for wastewater streams, as applicable, and routing streams to the 3019-MON Stripper, has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

512 [40 CFR 63.147]

[40 CFR 63.132.a.1]
 Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]
 Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G

513 [LAC 33:III.5107.A.2]**514 [LAC 33:III.5109.A.1]****EQT 0904 WW-3 - MON Wastewater Streams (Group 1) (Line 4 decanter tails - MDP Production)****515 [40 CFR 63.132.a.1]**

[40 CFR 63.132(f)]
 Operate and maintain a steam stripper that meets the requirements of 40 CFR 63.138(c)(1) through (d)(6). Subpart G. [40 CFR 63.138(d)]
 For each waste management unit, treatment process, or control device used to comply with 40 CFR 63.138 (b)(1), (c)(1), (d), (e), (f), or (g) of this subpart, the owner or operator seeks to monitor a parameter other than those specified in table 11, table 12, or table 13 of this subpart, the owner or operator shall submit a request for approval to monitor alternative parameters according to the procedures specified in 40 CFR 63.151(f) or (g) of this subpart. Subpart G. [40 CFR 63.146(a)]
 The owner or operator shall submit the information specified in paragraphs (b)(1) through (b)(9) of this section as part of the Notification of Compliance Status required by 40 CFR 63.152(b) of this subpart. Subpart G

516 [40 CFR 63.132.f]**517 [40 CFR 63.138.d]****518 [40 CFR 63.146.a]****519 [40 CFR 63.146.b]**

When 40 CFR 63.132(f) refers to 'a concentration of greater than 10,000 ppmw of Table 9 compounds, i.e. the phrase 'a concentration of greater than 30,000 ppmw of totally partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP, i' shall apply.

[40 CFR 63.132(f)]
 Operate and maintain a steam stripper that meets the requirements of 40 CFR 63.138(c)(1) through (d)(6). Subpart G. [40 CFR 63.138(d)]
 For each waste management unit, treatment process, or control device used to comply with 40 CFR 63.138 (b)(1), (c)(1), (d), (e), (f), or (g) of this subpart, the owner or operator seeks to monitor a parameter other than those specified in table 11, table 12, or table 13 of this subpart, the owner or operator shall submit a request for approval to monitor alternative parameters according to the procedures specified in 40 CFR 63.151(f) or (g) of this subpart. Subpart G. [40 CFR 63.146(a)]
 The owner or operator shall submit the information specified in paragraphs (b)(1) through (b)(9) of this section as part of the Notification of Compliance Status required by 40 CFR 63.152(b) of this subpart. Subpart G

UCC submitted the NOCS as required by MON on October 7, 2008
 [40 CFR 63.146(b)]

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
 Permit Number: 1912-V1
 Air - Title V Regular Permit Renewal

EQT 0904 WW-3 - MON Wastewater Streams (Group 1) (Line 4 decanter tails - MDP Production)

520 [40 CFR 63.147] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.

Comply with the requirements in 40 CFR 63.132 through 63.148 and the requirements referenced therein, except as specified in 40 CFR 63.2485. Subpart FFFF. [40 CFR 63.2485(a)]

Group 1 wastewater. Section 63.132(c)(1) (i) and (ii) do not apply. For the purposes of this subpart NESHAAP Subpart FFFF, a process wastewater stream is Group 1 for compounds in tables 8 and 9 to this subpart if any of the conditions specified in paragraphs (c) (1) through (3) of this section are met.

- (1) The total annual average concentration of compounds in table 8 to this subpart is greater than or equal to 10,000 ppmw at any flowrate, and the total annual load of compounds in table 8 to this subpart is greater than or equal to 200 lb/yr.
- (2) The total annual average concentration of compounds in table 8 to this subpart is greater than or equal to 1,000 ppmw, and the annual average flowrate is greater than or equal to 1 l/min.
- (3) The combined total annual average concentration of compounds in tables 8 and 9 to this subpart is greater than or equal to 30,000 ppmw, and the combined total annual load of compounds in tables 8 and 9 to this subpart is greater than or equal to 1 tpy.

[40 CFR 63.2485(c)(1-3)]

Determine the annual average concentration and annual average flowrate for wastewater streams for each MCPU. Subpart FFFF. [40 CFR 63.2485(j)]

Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

Compliance with NESHAAP 40 CFR 63 Subpart FFFF Group 1 requirements for wastewater streams, as applicable, and routing streams to the design stream stripper, 3019-MON Stripper, has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

EQT 0905 WW-4 - MON Maintenance Wastewater Streams (Line 3 and 4)

Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.5(e)(3). Subpart F. [40 CFR 63.105(d)]

Maintenance wastewater: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain a record of the information required by 40 CFR 63.105(b) and (c) as part of the start-up, shut-down, and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(e)]

Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
 Permit Number: 1912-V1
 Air - Title V Regular Permit Renewal

EQT 0905 WW-4 - MON Maintenance Wastewater Streams (Line 3 and 4)

- 531 [40 CFR 63.2485.a] Comply with the requirements in Table 7 for each maintenance wastewater which references the requirements in 40 CFR 63.105 and the requirements referenced therein, except as specified in 40 CFR 63.2485. Subpart FFFF. [40 CFR 63.2485(a)]
 Determine the annual average concentration and annual average flowrate for wastewater streams for each MCPU. Subpart FFFF. [40 CFR 63.2485(j)]

532 [40 CFR 63.2485.j] Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]

533 [40 CFR 63.2520.a] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.

534 [40 CFR 63.2525] Include emissions of all toxic air pollutants listed in LAC 33:III.S112, Table S1.1 or S1.3 in the Annual Emissions Report unless exempted under LAC 33:III.S105.B.

535 [LAC 33:III.S107.A.2] Compliance with NESHAP 40 CFR 63 Subpart FFFF Table 7 requirements for maintenance wastewater streams, as applicable, has been determined to be compliance with MACT in accordance with LAC 33:III.S109.A.2.

EQT 0906 WW-5 - MON Wastewater Streams (Group 2) (Flare base water streams)

- 536 [LAC 33:III.S109.A.1] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]
 For wastewater streams that are Group 2 for table 9 compounds, comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 63.147(b)(8). Subpart G
 [40 CFR 63.132(a)(3)]

537 [40 CFR 63.132.a.1] The owner or operator of a Group 2 wastewater shall re-determine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Examples of process changes include, but are not limited to, changes in production capacity, production rate, feedstock type, or whenever there is a replacement, removal, or addition of recovery or control equipment. For purposes of this paragraph (c)(3), process changes do not include: Process upsets; unintentional, temporary process changes; and changes that are within the range on which the original determination was based. Subpart G. [40 CFR 63.132(c)(3)]
 Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G

When 40 CFR 63.132(f) refers to "a concentration of greater than 10,000 ppmw of Table 9 compounds," the phrase "a concentration of greater than 30,000 ppmw of totally partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP" shall apply. [40 CFR 63.132(f)]

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
Activity Number: PER20070032
Permit Number: 1912-V1
Air - Title V Regular Permit Renewal

EQT 0906 WW-5 - MON Wastewater Streams (Group 2) (Flare base water streams)

For Group 2 wastewater streams, the owner or operator shall include the information specified in paragraphs (b)(1)(i) through (iv) of this section in the Notification of Compliance Status Report. This information may be submitted in any form. Table 15 of this subpart is an example. Subpart G

- (i) Process unit identification and description of the process unit.
- (ii) Stream identification code.
- (iii) For existing sources, concentration of table 9 compound(s) in parts per million, by weight. For new sources, concentration of table 8 and/or table 9 compound(s) in parts per million, by weight. Include documentation of the methodology used to determine concentration.
- (iv) Flow rate in liter per minute.

UCC submitted the NOCS as required by MON on October 7, 2008. [40 CFR 63.146(b)(1)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(b)(8). Subpart G

For Group 2 wastewater streams, the owner or operator shall keep in a readily accessible location the records specified in paragraphs (b)(8)(i) through (iv) of this section.

- (i) Process unit identification and description of the process unit.

- (ii) Stream identification code.

(iii) For existing sources, concentration of table 9 compound(s) in parts per million, by weight. For new sources, concentration of table 8 and/or table 9 compound(s) in parts per million, by weight. Include documentation of the methodology used to determine concentration.

(iv) Flow rate in liter per minute. [40 CFR 63.147(b)(8)]
 Comply with the requirements in Table 7 for each process wastewater which references the requirements in Table 7 for each maintenance wastewater which references the requirements in 40 CFR 63.132 through 63.148 and the requirements referenced therein, except as specified in 40 CFR 63.2485. Subpart FFFF. [40 CFR 63.2485(a)]

541 [40 CFR 63.146.b.1]

542 [40 CFR 63.147.b.8]

543 [40 CFR 63.2485.a]

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
 Permit Number: 1912-V1
 Air - Title V Regular Permit Renewal

EQT 0906 WW-5 - MON Wastewater Streams (Group 2) (Flare base water streams)

Group 1 wastewater. Section 63.132(c)(1) (i) and (ii) do not apply. For the purposes of this subpart NESHAP Subpart FFFF, a process wastewater stream is Group 1 for compounds in tables 8 and 9 to this subpart if any of the conditions specified in paragraphs (c) (1) through (3) of this section are met.

(1) The total annual average concentration of compounds in table 8 to this subpart is greater than or equal to 10,000 ppmw at any flowrate, and the total annual load of compounds in table 8 to this subpart is greater than or equal to 200 lb/yr.

(2) The total annual average concentration of compounds in table 8 to this subpart is greater than or equal to 1,000 ppmw, and the annual average flowrate is greater than or equal to 1 l/min.

(3) The combined total annual average concentration of compounds in tables 8 and 9 to this subpart is greater than or equal to 30,000 ppmw, and the combined total annual load of compounds in tables 8 and 9 to this subpart is greater than or equal to 1 tpy.
 [40 CFR 63.2485(c)(1-3)]

Determine the annual average concentration and annual average flowrate for wastewater streams for each MCPU. Subpart FFFF. [40 CFR 63.2485(j)]

Submit each report listed in Table 11, as applicable. Subpart FFFF. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.

Include emissions of all toxic air pollutants listed in LAC 33.III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33.III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be compliance with 40 CFR 63 Subpart FFFF, as applicable.

EQT 0916 856 - North MeSH Tank (C-1201) (pressure tank)

Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.
 Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33.III.2103.I.1 - 7, as applicable.

EQT 0981 856A - South MeSH Tank (C-1202) (pressure tank)

Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.
 Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33.III.2103.I.1 - 7, as applicable.

FUG 0019 196R - Equipment Fugitive Emissions

SPECIFIC REQUIREMENTS

AID: 2083 - Union Carbide Corp - St Charles Operations
Activity Number: PER20070032
Permit Number: 1912-V1
Air - Title V Regular Permit Renewal

FUG 0019 196R - Equipment Fugitive Emissions

556 [40 CFR 63.1022.f]

For Lines 3 and 4
 Equipment in heavy liquid service: Retain information, data, and analyses used to determine that a piece of equipment is in heavy liquid service; or, when requested by DEQ, demonstrate that the piece of equipment or process is in heavy liquid service, as applicable. Subpart UU.
 [40 CFR 63.1022(f)]

557 [40 CFR 63.1022]

For Lines 3 and 4
 Identify equipment subject to 40 CFR 63 Subpart UU as specified in 40 CFR 63.1022(a) through (f), as applicable. Subpart UU.

558 [40 CFR 63.1024.a]

For Lines 3 and 4
 Repair each leak detected as soon as practical, but not later than 15 calendar days after it is detected, except as specified in 40 CFR 63.1024(d) and (e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Subpart UU. [40 CFR 63.1024(a)]

559 [40 CFR 63.1024.d]

For Lines 3 and 4
 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of delay of repair of a leak. Maintain a record of the facts that explain any delay of repairs and, where appropriate, why the repair was technically infeasible without a process unit shutdown. Subpart UU. [40 CFR 63.1024(d)]

560 [40 CFR 63.1036.a]

For Lines 3 and 4
 As an alternative to complying with the requirements of 40 CFR 63.1025 through 63.1033 and 40 CFR 63.1035, an owner or operator of a batch process may comply with one of the standards specified in paragraphs (b) and (c) of this section, as applicable. Subpart UU

561 [40 CFR 63.1038]

For Lines 3 and 4
 UCC will comply with 40 CFR 63.1036(b) Pressure testing of the batch equipment. [40 CFR 63.1036(a)]

562 [40 CFR 63.1039.a]

For Lines 3 and 4
 Keep the records specified in 40 CFR 63.1038(b) and (c), as applicable. Subpart UU.

Submit Initial Compliance Status Report: Due according to the procedures in the referencing subpart. Include the information listed in 40 CFR 63.1039(a)(1) through (a)(3), as applicable. Subpart UU

563 [40 CFR 63.1039.b]

For Lines 3 and 4
 UCC submitted the initial compliance status report on October 7, 2008. [40 CFR 63.1039(a)]
 Submit Periodic Reports: Due according to the procedures in the referencing subpart. Include the information listed in 40 CFR 63.1039(b)(1) through (b)(8), as applicable. Subpart UU. [40 CFR 63.1039(b)]

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
 Permit Number: 1912-V1
 Air - Title V Regular Permit Renewal

FUG 0019 196R - Equipment Fugitive Emissions

564 [40 CFR 63.178.a]

For Line 1

THBA production as per "Federal Register / Vol 63, No. 91/Tuesday, May 12, 1998 / Rules and Regulations" is considered a batch process for the purposes of equipment leaks.

As an alternative to complying with the requirements of 40 CFR 63.163 through 63.171 and 40 CFR 63.173 through 63.176, an owner or operator of a batch process that operates in organic HAP service during the calendar year may comply with one of the standards specified in paragraphs (b) and (c) of this section, or the owner or operator may petition for approval of an alternative standard under the provisions of 40 CFR 63.177 of this subpart. The alternative standards of this section provide the options of pressure testing or monitoring the equipment for leaks. The owner or operator may switch among the alternatives provided the change is documented as specified in 40 CFR 63.181. Subpart H.

[40 CFR 63.178(a)]

For Line 1 only during THBA production:

Follow 40 CFR 63.180(f)(1) &(5) to pressure check batch product-process equipment utilizing pressure or vacuum loss to demonstrate compliance. Subpart H. [40 CFR 63.180(f)]

For Line 1

The owner or operator of a batch product process who elects to pressure test the batch product process equipment train to demonstrate compliance with this subpart is exempt from the requirements of paragraphs (b), (c), (d), and (f) of this section. Instead, the owner or operator shall maintain records of the following information, as applicable:

- (1) The identification of each product, or product code, produced during the calendar year. It is not necessary to identify individual items of equipment in a batch product process equipment train.
- (2) [Reserved]

(3) Physical tagging of the equipment to identify that it is in organic HAP service and subject to the provisions of this subpart is not required. Equipment in a batch product process subject to the provisions of this subpart may be identified on a plant site plan, in log entries, or by other appropriate methods.

(4) The dates of each pressure test required in Sec. 63.178(b) of this subpart, the test pressure, and the pressure drop observed during the test.

(5) Records of any visible, audible, or olfactory evidence of fluid loss.

(6) When a batch product process equipment train does not pass two consecutive pressure tests, the following information shall be recorded in a log and kept for 2 years:

- (i) The date of each pressure test and the date of each leak repair attempt.
- (ii) Repair methods applied in each attempt to repair the leak.
- (iii) The reason for the delay of repair.
- (iv) The expected date for delivery of the replacement equipment and the actual date of delivery of the replacement equipment.
- (v) The date of successful repair.

Subpart H. [40 CFR 63.181(e)]

For Line 1

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k), as applicable. Subpart H.

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
 Permit Number: 1912-V1
 Air - Title V Regular Permit Renewal

FUG 0019 196R - Equipment Fugitive Emissions

568 [40 CFR 63.182.c]

For Line 1
 Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H

569 [40 CFR 63.182.d]

UCC submitted the NOCS as required by HON on October 4, 2001. [40 CFR 63.182(c)]
 For Line 1
 Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c).
 Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]

570 [40 CFR 63.2480.a]

For Lines 3 and 4
 Comply with the requirements in Table 6 as applicable. Subpart FFFF
 UCC implements LDAR program as specified in 40 CFR 63 Subpart UU. It applies to equipment in organic HAP service (greater than or equal to 5% HAP). [40 CFR 63.2480(a)]
 For Lines 3 and 4

571 [40 CFR 63.2525]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

572 [LAC 33:III.5107.A.1]

Compliance with NESHAP 40 CFR 63 Subparts FFFF and UU for MON fugitives and 40 CFR 63 Subpart H for HON fugitives, has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

573 [LAC 33:III.5107.A.2]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.

MACT is determined to be compliance with NESHAP Subparts H, UU, and FFFF as applicable.

MACT consists of leak checking (Bubble Method) each component that received maintenance prior to start-up and ambient monitoring system for acrolein and methyl mercaptan.

RLP 1131 872 - Process Vent (ID C-720)

576 [40 CFR 63.2455.a]

Reduce organic HAP emissions by venting emissions through closed-vent system to a flare. Subpart FFFF
 Emissions routed to flare, EIQ 131A. [40 CFR 63.2455(a)]
 Submit each report listed in Table 11, as applicable. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
 Permit Number: 1912-V1
 Air - Title V Regular Permit Renewal

RLP 1131 872 - Process Vent (ID C-720)

- Include emissions of all toxic air pollutants listed in LAC 33:III.5107.A.2] under LAC 33:II.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to the flare, EIQ 131A.

RLP 1132 873 - Column Vent (ID C-750)

- Reduce organic HAP emissions by venting emissions through closed-vent system to a flare. Subpart FFFF
 Emissions routed to flare, EIQ 131A. [40 CFR 63.2455(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to the flare, EIQ 131A.

RLP 1133 883A - Batch Process Vent C-319

- Organic HAP \geq 98 % reduction by venting emissions through one or more closed-vent system to any combination of control devices (except a flare). Subpart FFFF.
 Vent stream routed to the Thermal Oxidizer, (EIQ 830). [40 CFR 63.2460(a)]
 Conduct performance test under hypothetical worst case conditions, as defined in 40 63.1257(b)(8)(i)(B); and the emission profile is based on capture and control system limitations as specified in 40 CFR 63.1257(b)(8)(ii)(C), Subpart GGG. Subpart FFFF
 UCC conducted the required performance test as required by MON on August 15, 2008. [40 CFR 63.2460(b)(5)(i)]
 Submit the test plan required by 40 CFR 63.7(c) and the emission profile with the notification of the performance test, for any performance test required as part of the initial compliance procedures for batch process vents in 40 CFR 63 Subpart FFFF Table 2. Subpart FFFF
 UCC notified DEQ of the intention to conduct a performance as required by MON on June 13, 2008. [40 CFR 63.2515(c)]
 Submit each report listed in Table 11, as applicable. [40 CFR 63.2520(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be routing emissions to the thermal oxidizer, EIQ 830.

RLP 1134 883B - Batch Process Vent (ID C-1319)

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
 Permit Number: 1912-V1
 Air - Title V Regular Permit Renewal

RLP 1134 883B - Batch Process Vent (ID C-1319)

- Organic HAP \geq 98 % reduction by weight by venting emissions through one or more closed-vent system to any combination of control devices (except a flare). Subpart FFFF.
- Vent stream routed to Thermal Oxidizer, (EIQ 830). [40 CFR 63.2460(a)]
- Conduct performance test under hypothetical worst case conditions, as defined in 40 CFR 63.1257(b)(8)(i)(B); and the emission profile is based on capture and control system limitations as specified in 40 CFR 63.1257(b)(8)(ii)(C), Subpart GCG. Subpart FFFF
- UCC conducted the required performance test as required by MON on August 15, 2008. [40 CFR 63.2460(b)(5)ii]
- Submit the test plan required by 40 CFR 63.7(c) and the emission profile with the notification of the performance test, for any performance test required as part of the initial compliance procedures for batch process vents in 40 CFR 63 Subpart FFFF Table 2. Subpart FFFF
- UCC notified DEQ of the intention to conduct a performance test as required by MON on June 13, 2008. [40 CFR 63.2515(c)]
- Submit each report listed in Table 11, as applicable. [40 CFR 63.2520(a)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
- Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be routing emissions to the thermal oxidizer, EIQ 830.

RLP 1135 885 - Process Column Vent (ID C-120)

- Reduce emissions of organic HAP using a flare. Do not vent halogenated vent streams to a flare. Subpart G. [40 CFR 63.113(a)(1)]
- Bypass lines: Flow monitored by flow indicator once every 15 minutes. Equip the flow indicator with a recorder that takes a reading at least once every 15 minutes and install at the entrance to any bypass line that could divert the gas stream to the atmosphere. Subpart G. [40 CFR 63.114(d)(1)]
- Which Months: All Year Statistical Basis: None specified
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Bypass lines: Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart G. [40 CFR 63.114(d)(2)]
- Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be routing emissions to the Flare (EIQ 131A).

GRP 0154 SPU-Line 1 - Line 1- MDP & THBA

SPECIFIC REQUIREMENTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
 Permit Number: 1912-V1
 Air - Title V Regular Permit Renewal

GRP 0154 SPU-Line 1 - MDP & THBA

Group Members: EQT 0842 EQT 0843 EQT 0844 EQT 0848 EQT 0850 EQT 0851 EQT 0852 EQT 0853 EQT 0854 EQT 0855 EQT 0856 EQT 0857 EQT 0858 EQT 0861 EQT 0863 EQT 0864 EQT 0865 EQT 0866
 EQT 0880 EQT 0892 EQT 0895 EQT 0897 EQT 0898 EQT 0899 EQT 0900 RLP 1135 RLP 1136 RLP 1137

- 605 [40 CFR 63.1-15] For Line 1 THBA sources Affected NESHAP stationary sources from Line 1 will comply with applicable provisions of 40 CFR 63 Subparts A, F, G and H. [40 CFR 63.1-15, 40 CFR 63.100, 40 CFR 63.110, 40 CFR 63.160]
Demonstrate compliance with the emission standard in 40 CFR 63.112(a) by following the procedures specified in 40 CFR 63.112(e) for all emission points, or by following the emissions averaging compliance approach specified in 40 CFR 63.112(f) for some emission points and the procedures specified in 40 CFR 63.112(e) for all other emission points within the source. Subpart G. [40 CFR 63.112(c)]
- 606 [40 CFR 63.112.c] Submit Initial Notification: Due in writing within 120 calendar days after the date of promulgation of 40 CFR 63 Subpart G. Include the information specified in 40 CFR 63.151(b)(1)(i) through (b)(1)(v). Subpart G. [40 CFR 63.151(b)]
- 607 [40 CFR 63.151.b] Submit Periodic Reports: Due semiannually no later than 60 calendar days after the end of each 6-month period, except as specified in 40 CFR 63.152(c)(5) and (c)(6). Submit the first report no later than 8 months after the date the Notification of Compliance Status is due. Include the information specified in 40 CFR 63.152(c)(2) through (c)(4). Subpart G. [40 CFR 63.152(c)]
- 608 [40 CFR 63.152.c] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records as specified in 40 CFR 63.152(f)(1) through (f)(7). Subpart G. [40 CFR 63.152(f)]
- 609 [40 CFR 63.152.f] Submit Initial Notification: Due within 120 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]
- 610 [40 CFR 63.182.b] Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]
- 611 [40 CFR 63.182.c] Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]
- 612 [40 CFR 63.182.d]

UNF 0007 SPU - Specialty Products Unit

- 613 [40 CFR 63.2430-2550] Permits shall comply with all applicable requirements from 40 CFR 63 Subpart FFFF.
Be in compliance with the emission limits and work practice standards in 40 CFR 63 Subpart FFFF Tables 1 through 7 at all times, except during periods of startup, shutdown, and malfunction. Subpart FFFF
- 614 [40 CFR 63.2450.a] 40 CFR 63 Subpart FFFF applies to Lines 3 and 4. [40 CFR 63.2450(a)]
- 615 [40 CFR 63.2515.a] Submit all of the notifications in 40 CFR 63.6(h)(4) and (h)(5), 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b) through (h) by the dates specified, as applicable. Subpart FFFF. [40 CFR 63.2515(a)]
- 616 [40 CFR 63.2515.c] Submit notification of intent to conduct a performance test: Due at least 60 calendar days before the performance test is scheduled to begin as required in 40 CFR 63.7(b)(1), if required to conduct a performance test. Subpart FFFF
UCC notified DEQ of the intention to conduct a performance as required by MON on June 13, 2008. [40 CFR 63.2515(c)]

SPECIFIC REQUIREMENTS

AID: 2083 - Union Carbide Corp - St Charles Operations
Activity Number: PER20070032
Permit Number: 1912-V1
Air - Title V Regular Permit Renewal

UNF 0007 SPU - Specialty Products Unit

- 617 [40 CFR 63.2520.a] Submit Compliance Report: Due per schedule according to 40 CFR 63.2520(b)(1) & (5). Include the information specified in 40 CFR 63.2520(e)(1) through (e)(10). Subpart FFFF. [40 CFR 63.2520(a)]
- 618 [40 CFR 63.2520.a] Submit Notification of Compliance Status Report: Due no later than 150 days after the compliance date specified in 40 CFR 63.2445. Include the information specified in 40 CFR 63.2520(d)(2)(i) through (d)(2)(ix). Subpart FFFF
- UCC submitted the NOCS as required by MON on October 7, 2008. [40 CFR 63.2520(a)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
- Submit Title V permit application for renewal: Due 6 months before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. [40 CFR 70.6(a)(3)(iii)(B)]
- Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded.

INVENTORIES

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20070032

Permit Number: 1912-V1

Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Specialty Products Unit						
EQT 0842	131A - SPU Process Flare (ID-1901-B)		419.92 MM BTU/hr	48.92 MM BTU/hr		8760 hr/yr
EQT 0843	661 - Butadiene Field Storage Tank (ID 2541)	76236 gallons	8000 gallons/hr	2 MM gallons/hr	Butadiene	8760 hr/yr
EQT 0844	662 - VME Field Storage Tank (ID 2562)	76236 gallons	8000 gallons/hr	7.4 MM gallons/yr	VME	8760 hr/yr
EQT 0848	830 - Thermal Oxidizer/Scrubber ER V-1148		4088.57 scf/hr	949.9 scf/hr		8760 hr/yr
EOT 0849	835 - Line 1 Heavy Residue Tank (ID 3434)	7220 gallons	6000 gallons/hr	145000 gallons/yr	Heavy residue-MDP/THBA	8760 hr/yr
EOT 0850	836 - Line 1 Inhibitor Tank (ID 3430T)	3459 gallons	3000 gallons/hr	127500 gallons/yr	Inhibitor	8760 hr/yr
EQT 0851	837 - Line 1 Inhibitor Storage Tank (ID 3430B)	3110 gallons	3000 gallons/hr	127500 gallons/yr	Inhibitor	8760 hr/yr
EQT 0852	838A - Line 1 Make Tank (ID 3435)	13850 gallons	6000 gallons/hr	5.2 MM gallons/yr	MDP and THBA	8760 hr/yr
EQT 0853	838B - Line 1 Make Tank (ID 3437)	13850 gallons	6000 gallons/hr	5.2 MM gallons/yr	MDP and THBA	8760 hr/yr
EQT 0854	838C - Line 1 Re-Run Tank (ID 3439)	13850 gallons	6000 gallons/hr	5.2 MM gallons/yr	MDP and THBA	8760 hr/yr
EQT 0855	839 - Line 1 Light Residue Tank (ID 3438)	7679 gallons	7679 gallons/hr	50000 gallons/yr	Light Residue	8760 hr/yr
EQT 0856	840 - Cyclohexane Storage Tank (ID 3436)	5896 gallons	5896 gallons/hr	54600 MM gallons/yr	Cyclohexane	8760 hr/yr
EQT 0857	841A - Acrolein Storage Tank (ID 3411)	32311 gallons	9000 gallons/hr	31.15 MM gallons/yr	Acrolein	8760 hr/yr
EQT 0858	841B - Acrolein Storage Tank (ID 3412)	32311 gallons	9000 gallons/hr	31.15 MM gallons/yr	Acrolein	8760 hr/yr
EQT 0859	841C - Acrolein Storage Tank (ID 341C)	32311 gallons	9000 gallons/hr	31.15 MM gallons/yr	Acrolein	8760 hr/yr
EQT 0860	845A - Train T East Day Tank (ID-3423)	20540 gallons	20540 gallons/hr	36.29 MM gallons/yr	MM	8760 hr/yr
EQT 0861	845B - Train 1 West Day Tank (ID 3424)	20540 gallons	20540 gallons/hr	36.29 MM gallons/yr	MM	8760 hr/yr
EQT 0862	846 - North Brine Tank (ID C-1237)	9514 gallons	5000 gallons/hr	38057 gallons/yr	Glycol	8760 hr/yr
EQT 0863	847 - Wastewater Tank-Clean-up Tank (CUT) (ID 1136)	4172 gallons	4172 gallons/hr	8472 gallons/yr	Waste water from MDP or THBA	8760 hr/yr
EQT 0864	851 - Line 1 Recycle Tank (ID C-101)	2118 gallons	2118 gallons/hr	8472 gallons/yr	MDP recycle or THBA recycle.	8760 hr/yr
EQT 0865	852 - Line 1 Feed Pot (ID C-102)	402 gallons	402 gallons/hr	1607 gallons/yr	MDP Rx feeds and THBA Rx feeds	8760 hr/yr
EQT 0866	859 - Tank Car Rack		81908 gallons/hr	34.13 MM gallons/yr	MM (Line 3)	8760 hr/yr
EQT 0867	861 - Tank Truck Rack		119620 gallons/hr	13.49 MM gallons/yr	THBA & MDP products, and THBA(light/heavy/residue), & MDP(heavy/residue)-Line 1 & Line 4	8760 hr/yr
EQT 0868	862 - MMP Unit Storage Tank (ID-3420)	126904 gallons	9000 gallons/hr	36.29 MM gallons/yr	MMP	8760 hr/yr
EQT 0869	866 - Acrolein Buffer Tank	3295 gallons	3295 gallons/hr	3900 gallons/yr	Acrolein Buffer	8760 hr/yr
EQT 0870	871 - Line 4 Feed Pot (ID C-702)	436 gallons	436 gallons/hr	1745 gallons/yr	Feed Pot-MDP	8760 hr/yr
EQT 0871	874 - Line 4 Make Tank (ID-3935)	13850 gallons	6000 gallons/hr	10.4 MM gallons/yr	L4 MDP Make	8760 hr/yr
EOT 0872	875 - Line 4 Make Tank (ID-3937)	13850 gallons	6000 gallons/hr	10.4 MM gallons/yr	L4 MDP Make	8760 hr/yr
EOT 0873	876 - Line 4 Re-Run Tank (ID-3939)	13850 gallons	6000 gallons/hr	10.4 MM gallons/yr	L4 MDP Make	8760 hr/yr
EOT 0874	879 - MDP Heavy Residue Tank (ID-3934B)	8515 gallons	6000 gallons/hr	290000 gallons/yr	L4 Heavy Residue MDP	8760 hr/yr
EQT 0875	880 - VME Recycle Tank (ID-3938)	3107 gallons	3107 gallons/hr	25000 gallons/yr	Light Residue MDP Recycle	8760 hr/yr
EQT 0876	884 - West Catalyst Storage Tank (ID C-1206)	13799 gallons	5000 gallons/hr	180000 gallons/yr	Catalyst	8760 hr/yr
EQT 0877	3000 - MMP Bulk Storage Tank (ID-3441)	4773 gallons	9000 gallons/hr	3629 MM gallons/yr	MMP	8760 hr/yr
EOT 0878	3002A - Train 2 West Day Tank (ID C-2274)	20540 gallons	20540 gallons/hr	36.29 MM gallons/yr	MMP	8760 hr/yr
EQT 0879	3002B - Train 2 East Day Tank (ID C-2275)	20540 gallons	20540 gallons/hr	36.29 MM gallons/yr	MMP	8760 hr/yr

INVENTORIES**AI ID: 2083 - Union Carbide Corp - St Charles Operations****Activity Number: PER20070032****Permit Number: 1912-V1****Air - Title V Regular Permit Renewal****Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Specialty Products Unit						
EQT 0880	3004 - Diesel Generator		600 horsepower	600 horsepower		100 hr/yr
EQT 0881	3006 - Line 4 Recycle Tank (ID C-701)	2252 gallons	2252 gallons/hr	9007 gallons/yr	Line 4 recycle material	8760 hr/yr
EQT 0882	3007 - South Brine Tank (ID C-2237)	9514 gallons	5000 gallons/hr	38057 gallons/yr	Glycol	8760 hr/yr
EQT 0883	3008 - East Catalyst Storage Tank (ID C-2206)	13789 gallons	5000 gallons/hr	180000 gallons/yr	Catalyst	8760 hr/yr
EQT 0884	3009A - Train 1 Acrolein Weigh Tank (Process Vessel)	3700 gallons				8760 hr/yr
EQT 0885	3009B - Train 2 - Acrolein Weigh Tank (Process Vessel)	3720 gallons				8760 hr/yr
EQT 0886	3001A - Train 1 Catalyst Day Tank (Process Vessel)	675 gallons			catalyst	8760 hr/yr
EQT 0887	3001B - Train 2 Catalyst Day Tank (Process Vessel)	675 gallons			catalyst	8760 hr/yr
EQT 0888	3010A - Train 1 MeSH Weigh Tank (Process Vessel)	3700 gallons				8760 hr/yr
EQT 0889	3010B - Train 2 MeSH Weigh Tank (Process Vessel)	3700 gallons				8760 hr/yr
EQT 0890	3011A - Train 1 Hold Tank (Process Vessel)	3700 gallons				8760 hr/yr
EQT 0891	3011B - Train 2 Hold Tank (Process Vessel)	3700 gallons				8760 hr/yr
EQT 0892	3012 - Line 1 Hotwell (ID C-136)	69 gallons	50 gallons/hr	276 gallons/yr	MDPTHBA service	8760 hr/yr
EQT 0894	3013 - Line 4 Hotwell (ID C-736)	69 gallons	50 gallons/hr	370000 .gallons/yr	MDP service	8760 hr/yr
EQT 0895	3014 - Wastewater Tank-Caustic Waste Treatment Tank (C-1011)	2310 gallons	2310 gallons/hr	9241 gallons/yr	Process and waste water from MDP or THBA process cleaning	8760 hr/yr
EQT 0897	3015 - Wastewater Tank-Process Sewer Sump Tank (ID C-1021)	6334 gallons	5000 gallons/hr	130000 gallons/yr	Process and waste water from MPP	8760 hr/yr
EOT 0898	3017 - Line 1 & 4 Flare Header Knock Out Pot	3220 gallons				8760 hr/yr
EOT 0899	3018 - Line 1 & 4 Incinerator Header Knock Out Pot	150 gallons				8760 hr/yr
EQT 0900	3019 - MON Stripper					8760 hr/yr
EQT 0901	SPU - Column Condensers					8760 hr/yr
EQT 0902	WW-1 - SOCMI Wastewater Streams (Group 1) (Line 1 decanter tails - THBA Production)					8760 hr/yr
EQT 0903	WW-2 - Process Wastewater Streams (Line 4 process wastewater streams - residue loading and hotwell exit)					8760 hr/yr
EOT 0904	WW-3 - MON Wastewater Streams (Group 1) (Line 4 decanter tails - MDP Production)					8760 hr/yr
EQT 0905	WW-4 - MON Maintenance Wastewater Streams (Line 3 and 4)					8760 hr/yr
EOT 0906	WW-5 - MON Wastewater Streams (Group 2) (Flare base water streams)					8760 hr/yr
EOT 0916	856 - North MeSH Tank (C-1201) (pressure tank)	54891 gallons			Methyl Mercaptan (MeSH) raw material	8760 hr/yr
EOT 0980	SPU - Heat Exchangers					8760 hr/yr
EOT 0981	856A - South MeSH Tank (C-1202) (pressure tank)	54891 gallons			Methyl Mercaptan (MeSH) raw material	8760 hr/yr
FUG 0019	196R - Equipment Fugitive Emissions					8760 hr/yr
RLP 1131	872 - Process Vent (ID C-720)					8760 hr/yr
RLP 1132	873 - Column Vent (ID C-750)					8760 hr/yr
RLP 1133	883A - Batch Process Vent C-319					8760 hr/yr

INVENTORIES

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20070032

Permit Number: 1912-V1

Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Specialty Products Unit						
RLP 1134	883B - Batch Process Vent (ID C-1319)					8760 hr/yr
RLP 1135	885 - Process Column Vent (ID C-120)					8760 hr/yr
RLP 1136	886 - Column Vent (ID C-150)					8760 hr/yr
RLP 1137	888 - Column Vent (ID C-130)					8760 hr/yr

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
Specialty Products Unit							
EQT 0842	131A - SPU Process Flare (ID-1901-B)	9	161	2		198.9	1310
EQT 0848	830 - Thermal Oxidizer/Scrubber ER V-1148	7.11	593	1.33		150	190
EQT 0849	835 - Line 1 Heavy Residue Tank (ID 3434)			.66		25	77
EQT 0850	836 - Line 1 Inhibitor Storage Tank (ID 3430T)			.25		30	77
EQT 0851	837 - Line 1 Inhibitor Storage Tank (ID 3430B)			.5		30	77
EQT 0862	846 - North Brine Tank (ID C-1237)			.12		20	
EQT 0866	866 - Acrolein Buffer Tank			.17		15	77
EQT 0860	3004 - Diesel Generator	195	9200	1		3.83	176
EQT 0882	3007 - South Brine Tank (ID C-2237)			.12		20	

Relationships:

ID	Description	Relationship	ID	Description
EQT 0843	661 - Butadiene Field Storage Tank (ID 2541)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0844	662 - VME Field Storage Tank (ID 2542)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0849	835 - Line 1 Heavy Residue Tank (ID 3434)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0852	838A - Line 1 Make Tank (ID 3435)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0853	838B - Line 1 Make Tank (ID 3437)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0854	838C - Line 1 Re-Run Tank (ID 3439)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0855	839 - Line 1 Light Residue Tank (ID 3438)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0856	840 - Cyclohexane Storage Tank (ID 3436)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0857	841A - Acrolein Storage Tank (ID 3411)	Controlled by , Back-up control	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0857	841A - Acrolein Storage Tank (ID 3411)	Controlled by	EQT 0843	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0858	841B - Acrolein Storage Tank (ID 3412)	Controlled by , Back-up control	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0858	841B - Acrolein Storage Tank (ID 3412)	Controlled by	EQT 0843	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0859	841C - Acrolein Storage Tank (ID 341C)	Controlled by , Back-up control	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0859	841C - Acrolein Storage Tank (ID 341C)	Controlled by	EQT 0843	830 - Thermal Oxidizer/Scrubber ER V-1148

INVENTORIES

AI ID: 2083 - Union Carbide Corp - St Charles Operations
Activity Number: PER20070032
Permit Number: 1912-V1
Air - Title V Regular Permit Renewal

Relationships:

ID	Description	Relationship	ID	Description
EQT 0860	845A - Train 1 East Day Tank (ID-3423)	Controlled by , Back-up control	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0860	845A - Train 1 East Day Tank (ID-3423)	Controlled by	EQT 0848	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0861	845B - Train 1 West Day Tank (ID 3424)	Controlled by , Back-up control	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0861	845B - Train 1 West Day Tank (ID 3424)	Controlled by	EQT 0848	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0862	846 - North Brine Tank (ID C-1237)	Controlled by , Back-up control	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0862	846 - North Brine Tank (ID C-1237)	Controlled by	EQT 0848	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0863	847 - Wastewater Tank-Clean-up Tank (CUT) (ID 1136)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0864	851 - Line 1 Recycle Tank (ID C-101)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0865	852 - Line 1 Feed Pot (ID C-102)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0866	859 - Tank Car Rack	Controlled by , Primary control	GRP 0157	Vapor Balancing - Vapor Balancing
EQT 0867	861 - Tank Truck Rack	Controlled by , Primary control	GRP 0157	Vapor Balancing - Vapor Balancing
EQT 0868	862 - MMP Unit Storage Tank (ID-3420)	Controlled by	EQT 0848	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0870	871 - Line 4 Feed Pot (ID C-702)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0871	874 - Line 4 Make Tank (ID-3935)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0872	875 - Line 4 Make Tank (ID-3937)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0873	876 - Line 4 Re-Run Tank (ID-3939)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0874	879 - MDP Heavy Residue Tank (ID-3934B)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0875	880 - VME Recycle Tank (ID-3938)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0876	884 - West Catalyst Storage Tank (ID C-1206)	Controlled by	EQT 0843	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0877	3000 MMP Bulk Storage Tank (ID-3441)	Controlled by	EQT 0843	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0878	3002A - Train 2 West Day Tank (ID C-2274)	Controlled by	EQT 0843	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0879	3002B - Train 2 East Day Tank (ID C-2275)	Controlled by	EQT 0843	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0881	3006 Line 4 Recycle Tank (ID C-701)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0883	3008 - East Catalyst Storage Tank (ID C-2206)	Controlled by	EQT 0843	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0884	3009A - Train 1 Acrolein Weigh Tank (Process Vessel)	Controlled by	EQT 0843	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0885	3009B - Train 2 - Acrolein Weigh Tank (Process Vessel)	Controlled by	EOT 0843	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0886	3001A - Train 1 Catalyst Day Tank (Process Vessel)	Controlled by	EOT 0843	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0887	3001B - Train 2 Catalyst Day Tank (Process Vessel)	Controlled by	EOT 0843	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0888	3010A - Train 1 MeSH Weigh Tank (Process Vessel)	Controlled by	EOT 0843	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0889	3010B - Train 2 MeSH Weigh Tank (Process Vessel)	Controlled by	EOT 0843	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0890	3011A - Train 1 Hold Tank (Process Vessel)	Controlled by	EQT 0843	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0891	3011B - Train 2 Hold Tank (Process Vessel)	Controlled by	EQT 0843	830 - Thermal Oxidizer/Scrubber ER V-1148
EQT 0892	3012 - Line 1 Howell (ID C-136)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0894	3013 - Line 4 Howell (ID C-736)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0895	3014 - Wastewater Tank-Caustic Waste Treatment Tank (C-1011)	Controlled by	EOT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0897	3015 - Wastewater Tank-Process Sewer Sump Tank (ID C-1021)	Controlled by	EOT 0848	830 - Thermal Oxidizer/Scrubber ER V-1148

INVENTORIES

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER20070032
 Permit Number: 1912-V1

Air - Title V Regular Permit Renewal

Relationships:

ID	Description	Relationship	ID	Description
EQT 0898	3017 -- Line 1 & 4 Flare Header Knock Out Pot	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0899	3018 - Line 1 & 4 Incinerator Header Knock Out Pot	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
EQT 0900	3019 - MON Stripper	Controlled by	EQT 0848	830 - Thermal Oxidizer/Scrubber ER V.1148
EQT 0902	WW-1 - SOCMI Wastewater Streams (Group 1) (Line 1 decanter tails - THBA Production)	Controlled by	EQT 0900	3019 - MON Stripper
EQT 0904	WW-3 - MON Wastewater Streams (Group 1) (Line 4 decanter tails - MDP Production)	Controlled by	EQT 0900	3019 - MON Stripper
EQT 0916	856 - North MeSH Tank (C-1201) (pressure tank)	Controlled by	EQT 0848	830 - Thermal Oxidizer/Scrubber ER V.1148
EQT 0981	856A - South MeSH Tank (C-1202) (pressure tank)	Controlled by	EQT 0848	830 - Thermal Oxidizer/Scrubber ER V.1148
RLP 1131	872 - Process Vent (ID C-720)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
RLP 1132	873 - Column Vent (ID C-750)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
RLP 1133	883A - Batch Process Vent C-319	Controlled by	EQT 0848	830 - Thermal Oxidizer/Scrubber ER V.1148
RLP 1134	883B - Batch Process Vent (ID C-1319)	Controlled by	EQT 0848	830 - Thermal Oxidizer/Scrubber ER V.1148
RLP 1135	885 - Process Column Vent (ID C-120)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
RLP 1136	886 - Column Vent (ID C-150)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)
RLP 1137	888 - Column Vent (ID C-130)	Controlled by	EQT 0842	131A - SPU Process Flare (ID-1901-B)

Subject Item Groups:

ID	Group Type	Group Description
GRP 0154	Equipment Group	SPU-Line 1 - Line 1 - MDP & THBA
GRP 0155	Equipment Group	SPU-Line 3 - Line 3 - MMP
GRP 0156	Equipment Group	SPU-Line 4 - Line 4 - MDP
UNF 0007	Unit or Facility Wide	SPU - Specialty Products Unit

Group Membership:

ID	Description	Member of Groups
EOT 0842	131A - SPU Process Flare (ID-1901-B)	GRP000000154, GRP0000000155, GRP0000000156
EOT 0843	661 - Butadiene Field Storage Tank (ID 2541)	GRP000000154
EOT 0844	662 - VME Field Storage Tank (ID 2542)	GRP000000154, GRP0000000156
EOT 0848	830 - Thermal Oxidizer/Scrubber ER V-1148	GRP0000000154, GRP0000000155, GRP0000000156
EQT 0849	835 - Line 1 Heavy Residue Tank (ID 3434)	GRP0000000154
EQT 0850	836 - Line 1 Inhibitor Tank (ID 3430T)	GRP0000000154
EOT 0851	837 - Line 1 Inhibitor Storage Tank (ID 3430B)	GRP0000000154
EOT 0852	838A - Line 1 Make Tank (ID 3435)	GRP0000000154
EOT 0853	838B - Line 1 Make Tank (ID 3437)	GRP0000000154
EQT 0854	838C - Line 1 Re-Run Tank (ID 3439)	GRP0000000154
EQT 0855	839 - Line 1 Light Residue Tank (ID 3439)	GRP0000000154
EQT 0856	840 - Cyclohexane Storage Tank (ID 3436)	GRP0000000154

INVENTORIES

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20070032

Permit Number: 1912-V1

Air - Title V Regular Permit Renewal

Group Membership:

ID	Description	Member of Groups
EQT 0857	841A - Acrolein Storage Tank (ID 3411)	GRP0000000154
EOT 0858	841B - Acrolein Storage Tank (ID 3412)	GRP0000000155
EOT 0859	841C - Acrolein Storage Tank (ID 341C)	GRP0000000155
EQT 0860	845A - Train 1 East Day Tank (ID-3423)	GRP0000000155
EQT 0861	845B - Train 1 West Day Tank (ID 3424)	GRP0000000154, GRP0000000155
EQT 0862	846 - North Brine Tank (ID C-1237)	GRP0000000155
EQT 0863	847 - Wastewater Tank-Clean-up Tank (CUT) (ID 1136)	GRP0000000154, GRP0000000155, GRP0000000156
EOT 0864	851 - Line 1 Recycle Tank (ID C-101)	GRP0000000154
EOT 0865	852 - Line 1 Feed Pot (ID C-102)	GRP0000000154
EOT 0866	859 - Tank Car Rack	GRP0000000154, GRP0000000155
EQT 0867	861 - Tank Truck Rack	GRP0000000156
EQT 0868	862 - MMP Unit Storage Tank (ID-3420)	GRP0000000155
EOT 0869	866 - Acrolein Buffer Tank	GRP0000000155, GRP0000000156
EOT 0870	871 - Line 4 Feed Pot (ID C-702)	GRP0000000156
EOT 0871	874 - Line 4 Make Tank (ID-3935)	GRP0000000156
EOT 0872	875 - Line 4 Make Tank (ID-3937)	GRP0000000156
EQT 0873	876 - Line 4 Re-Run Tank (ID-3939)	GRP0000000156
EQT 0874	879 - MDP Heavy Residue Tank (ID-3934B)	GRP0000000156
EQT 0875	880 - VME Recycle Tank (ID 3938)	GRP0000000156
EOT 0876	884 - West Catalyst Storage Tank (ID C-206)	GRP0000000155
EOT 0877	3000 - MMP Bulk Storage Tank (ID-3441)	GRP0000000155
EOT 0878	3002A - Train 2 West Day Tank (ID C-2224)	GRP0000000155
EOT 0879	3002B - Train 2 East Day Tank (ID C-2275)	GRP0000000155
EQT 0880	3004 - Diesel Generator	GRP0000000154, GRP0000000155, GRP0000000156
EQT 0881	3006 - Line 4 Recycle Tank (ID C-701)	GRP0000000156
EOT 0882	3007 - South Brine Tank (ID C-2237)	GRP0000000155
EOT 0883	3008 - East Catalyst Storage Tank (ID C-2206)	GRP0000000155
EOT 0884	3009A - Train 1 Acrolein Weigh Tank (Process Vessel)	GRP0000000155
EQT 0885	3009B - Train 2 Acrolein Weigh Tank (Process Vessel)	GRP0000000155
EQT 0886	3001A - Train 1 Catalyst Day Tank (Process Vessel)	GRP0000000155
EQT 0887	3001B - Train 2 Catalyst Day Tank (Process Vessel)	GRP0000000155
EQT 0888	3010A - Train 1 MeSH Weigh Tank (Process Vessel)	GRP0000000155
EOT 0889	3010B - Train 2 MeSH Weigh Tank (Process Vessel)	GRP0000000155
EOT 0890	3011A - Train 1 Hold Tank (Process Vessel)	GRP0000000155
EQT 0891	3011B - Train 2 Hold Tank (Process Vessel)	GRP0000000155
EQT 0892	3012 - Line 1 Hotwell (ID C-136)	GRP0000000154
EQT 0894	3013 - Line 4 Hotwell (ID C-736)	GRP0000000156
EOT 0895	3014 - Wastewater Tank-Caustic Waste Treatment Tank (C-1011)	GRP0000000154, GRP0000000155, GRP0000000156
EOT 0897	3015 - Wastewater Tank-Process Sewer Sump Tank (ID C-1021)	GRP0000000154, GRP0000000155, GRP0000000156
EOT 0898	3017 --Line 1 & 4 Flare Header Knock Out Pot	GRP0000000154, GRP0000000156
EQT 0899	3018 - Line 1 & 4 Incinerator Header Knock Out Pot	GRP0000000154, GRP0000000156

INVENTORIES

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20070032

Permit Number: 1912-V1

Air - Title V Regular Permit Renewal

Group Membership:

ID	Description	Member of Groups
EQT 0900	3019 - MON Stripper	GRP0000000154, GRP0000000156
EOT 0916	856 - North MeSH Tank (C-1201) (pressure tank)	GRP0000000155
EOT 0981	856A - South MeSH Tank (C-1202) (pressure tank)	GRP0000000155
RLP 1131	872 - Process Vent (ID C-720)	GRP0000000156
RLP 1132	873 - Column Vent (ID C-750)	GRP0000000156
RLP 1133	883A - Batch Process Vent C-319	GRP0000000155
RLP 1134	883B - Batch Process Vent (ID C-1319)	GRP0000000155
RLP 1135	885 - Process Column Vent (ID C-120)	GRP0000000154
RLP 1136	886 - Column Vent (ID C-150)	GRP0000000154
RLP 1137	888 - Column Vent (ID C-130)	GRP0000000154

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source Air Contaminant Source Air Contaminant Source	Multplier	Units Of Measure
0690	0690 Chemical and Chemical Prep, N.E.C. (Rated Capacity)	407	MM lbs/yr

SIC Codes:

2899	Chemical preparations, nec	AI 2083
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EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20070032

Permit Number: 1912-V1

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0842 131A	1,3-Butadiene	0.052	2.76	0.23
	Acetaldehyde	0.001	0.155	0.01
	Acrolein	0.005	3.13	0.02
	Benzene	<0.001	<0.001	<0.01
	Glycol ethers (Table 51.3)	<0.001	0.024	<0.01
	Methanol	<0.001	0.074	<0.01
	Propionaldehyde	<0.001	<0.001	<0.01
EQT 0848 830	Acetaldehyde	0.049	0.16	0.21
	Acrolein	0.03	0.16	0.15
	Benzene	<0.001	<0.001	<0.01
	Glycol ethers (Table 51.3)	<0.001	<0.001	<0.01
	Methanol	0.002	0.005	0.01
	Propionaldehyde	<0.001	0.002	<0.01
EQT 0850 836	Glycol ethers (Table 51.3)	<0.001	0.009	<0.01
EQT 0851 837	Glycol ethers (Table 51.3)	<0.001	0.009	<0.01
FUG 0019 196R	1,3-Butadiene	0.007	0.007	0.03
	Acetaldehyde	0.003	0.003	0.01
	Acrolein	0.037	0.037	0.16
	Benzene	<0.001	<0.001	<0.01
	Glycol ethers (Table 51.3)	0.077	0.077	0.34
	Hydrogen sulfide	<0.001	<0.001	<0.01
	Methanol	<0.001	<0.001	<0.01
	Propionaldehyde	<0.001	<0.001	<0.01

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER20070032

Permit Number: 1912-V1

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Specialty Products Unit															
EQT 0842 131A	19.91	155.37	87.21	3.66	28.55	16.03	0.34	0.41	1.47	0.10	0.09	0.35	0.54	25.94	2.38
EQT 0848 830	0.01	0.01	0.04	0.65	2.81	2.84	0.003	0.004	0.01	1.13	8.95	4.94	0.16	0.57	0.69
EQT 0850 836													<0.001	0.009	<0.01
EQT 0851 837													<0.001	0.009	<0.01
EQT 0862 846													<0.001	0.015	<0.01
EQT 0869 866													0.002	1.77	0.01
EQT 0880 3004	4.01	4.01	0.20	18.60	18.60	0.93	1.32	1.32	0.07	1.23	1.23	0.06	1.51	1.51	0.08
EQT 0882 3007													<0.001	0.015	<0.01
FUG 0019 196R													0.56	0.56	2.45

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

General Information

AID: 2083 Union Carbide Corp - St Charles Operations

Activity Number: PER20070032

Permit Number: 1912-V1

Air - Title V Regular Permit Renewal

<u>Also Known As:</u>		<u>ID</u>	<u>Name</u>	<u>User Group</u>	<u>Start Date</u>
2520-00001	Union Carbide Corp - Taft Star Plant	13-1421730	Federal Tax ID	CDS Number	01-03-1990
LAD041581422	Union Carbide Corp SCO Taft/Star	PMT/PC	Hazardous Waste Notification	Federal Tax ID	11-21-1999
LAD041581422	GPRRA Baselines	Union Carbide	Hazardous Waste Permitting	Hazardous Waste Notification	08-18-1980
LA0000191	LPDES #	LPDES #	Inactive & Abandoned Sites	GPRRA Baselines	10-01-1997
LAR10CC313	LPDES #	LPDES #	LPDES Permit #	Inactive & Abandoned Sites	06-08-1981
LAR10CC447	LPDES #	LPDES Permit #	LPDES Permit #	LPDES Permit #	05-22-2003
50152	ORIS Code	ORIS Code	LPDES Permit #	LPDES Permit #	12-12-2004
LA-2163-L01	Priority 1 Emergency Site	Priority 1 Emergency Site	LPDES Permit #	LPDES Permit #	09-16-2008
2163	Radioactive Material License	Radiation License Number	ORIS Code	ORIS Code	12-12-2004
GD-089-1324	X-Ray Registration Number	Site ID #	Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
17809	Union Carbide Chemicals & Plastics	Union Carbide Chemicals & Plastics	Radiation License Number	Radiation License Number	07-06-2001
19135	Dow Union Carbide - St Charles Operations	Dow Union Carbide - St Charles Operations	Solid Waste Facility No.	Solid Waste Facility No.	11-21-1999
34610	Union Carbide Corp - Hahnville Plant	Union Carbide Corp - Hahnville Plant	TEMPO Merge	TEMPO Merge	04-30-2001
35033	Union Carbide Corp - Star Plant	Union Carbide Corp - Star Plant	TEMPO Merge	TEMPO Merge	10-17-2001
3832	Union Carbide Corp	Union Carbide Corp	TEMPO Merge	TEMPO Merge	06-30-2002
38779	Union Carbide Corp	Union Carbide Corp	TEMPO Merge	TEMPO Merge	10-17-2001
38780	Union Carbide Corp	Union Carbide Corp	TEMPO Merge	TEMPO Merge	07-15-2001
38882	Union Carbide Corp	Union Carbide Corp	TEMPO Merge	TEMPO Merge	11-01-2000
44903	Union Carbide Corp Taft Plant	Union Carbide Corp Taft Plant	TEMPO Merge	TEMPO Merge	07-15-2001
45881	Union Carbide Chemical & Plastics	Union Carbide Chemical & Plastics	TEMPO Merge	TEMPO Merge	07-15-2001
8533	Union Carbide	Union Carbide	TEMPO Merge	TEMPO Merge	07-15-2001
89428	Dow Chemical	Dow Chemical	TEMPO Merge	TEMPO Merge	07-15-2001
9651	Union Carbide Star	Union Carbide Star	TEMPO Merge	TEMPO Merge	07-15-2001
7005NNCRBHWY31	TRI #	Toxic Release Inventory	TEMPO Merge	TEMPO Merge	07-22-2001
45011610	UST Facility ID (from UST legacy data)	UST FID #	Toxic Release Inventory	Toxic Release Inventory	09-05-2001
Physical Location:	355 Hwy 3142 Gate 28	Main Phone:	9857834411		
Mailing Address:	Taft, LA 70057				

General Information

AI ID: 2063 Union Carbide Corp - St Charles Operations

Activity Number: PER20070032

Permit Number: 1912-V1

Air - Title V Regular Permit Renewal

Location of Front Gate:	29° 58' 56" 24 hundredths latitude, 90° 27' 20" 24 hundredths longitude, Coordinate Method: Lat/Long. - DMS, Coordinate Datum: NAD83			
Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Tim Brady	PO Box 50 Hahnville, LA 700570050	9857834813 (WVP)	TEDI Contact for
	Tim Brady	PO Box 50 Hahnville, LA 700570050	BRADYTD@DOW.C	TEDI Contact for
	Tim Brady	PO Box 50 Hahnville, LA 700570050	9857834813 (WVP)	Emission Inventory Contact for
	Tim Brady	PO Box 50 Hahnville, LA 700570050	BRADYTD@DOW.C	Emission Inventory Contact for
	Percy Gasery	PO Box 50 Hahnville, LA 700570050	985-783-4315 (WVP)	Radiation Contact For
	Percy Gasery	PO Box 50 Hahnville, LA 700570050	985-783-4315 (WVP)	Radiation Safety Officer for
	Responsible Care Leader	PO Box 50 Hahnville, LA 700570050	9857834411 (WVP)	Responsible Official for
	Responsible Care Leader	PO Box 50 Hahnville, LA 700570050	9857834411 (WVP)	Air Permit Contact For
	Barry Minrich	PO Box 50 Hahnville, LA 700570050	9856333446 (WVP)	Katrina Response Contact for
	Steve Robinson	PO Box 50 Hahnville, LA 700570050	robinse@dow.com	Radiation Contact For
	Steve Robinson	PO Box 50 Hahnville, LA 700570050	9857834642 (WVP)	Radiation Contact For
	Steve Robinson	PO Box 50 Hahnville, LA 700570050	robinse@dow.com	Radiation Safety Officer for
	Steve Robinson	PO Box 50 Hahnville, LA 700570050	9857834642 (WVP)	Radiation Safety Officer for

Related Organizations:

Name	Address	Phone (Type)	Relationship
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050	Operates	
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050	Owns	
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050	Radiation Registration Billing Party for	
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050	Water Billing Party for	
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050	Emission Inventory Billing Party	
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050	Solid Waste Billing Party for	
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050	Radiation License Billing Party for	
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050	Accident Prevention Billing Party for	
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050	UST Billing Party for	
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050	Air Billing Party for	

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-0775 or email your changes to facupdate@la.gov.